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October 1, 2019

VIA CERTIFIED MAIL RETURN RECEIPT REQUESTED

OCT 0 7 2019

Christopher Hazeltine City Manager City of Poway 13325 Civic Center Drive Poway, California 92064

Re: Updated Notice of Violations and Intent to Sue under the Clean Water Act, 33 U.S.C. § 1251 et seq.

notifies you of his intent to update his citizen Through counsel, Poway landowner lawsuit against the City of Poway with additional claims in an amended complaint setting out claims based on facts that occurred both before and after the original pleadings were filed on November 15, 2018 (18cv2615 JLS (AHG)) and on September 18, 2019 (19cv1803 JLS (AHG)) over ongoing violations of the Clean Water Act (CWA) and the San Diego Regional MS4 Permit, Order No. R9-2013-0001, as amended by Order Nos. R9-2015-0001 and R9-2015-0100 (2013 MS4 Permit). The City of Poway is the operator of Lake Poway and the Lake Poway Recreation Area which includes the City-owned MS4 which receives discharges of stormwater, non-storm spring waters, rising groundwaters, and unpermitted dredged and fill materials from the City's activities as well from residents of Warren Canyon upstream of Lake Poway under the City of Poway's jurisdiction. The City of Poway is ultimately responsible for all of these stormwater and non-storm water discharges into and from its MS4 and into receiving waters including Warren Canyon, Warren Creek, and Lake Poway which all have been deemed "Waters of the United States" by the EPA and the State of California. According to the terms of the 2013 MS4 Permit, the City of Poway is also responsible for addressing the recurring exceedances of the nonstormwater action levels (NALs) for phosphorous, indicator bacteria, iron, and nitrogen that are being discharged into its MS4 and into Lake Poway on a daily basis during the times of the year when there is stream flow through Warren Canyon. In 2019, Warren Creek at the Boulder Bay area of Lake Poway has had consistent stream flow since February 5, 2019, 24 hours a day, 7 days

owns the following parcels in the City of Poway: APNs 278-210-1800; 278-210-0400; 278-210-0300; 278-210-2900; and 278-210-3000. These parcels are all within the subwatershed area feeding Lake Poway. His mailing address is

a week, persisting through at least August 10, 2019. In 2019, stream flow through Warren Crossing, located at 33.0030 latitude, -117.0057 longitude, was persistent 24 hours a day, 7 days a week from February 5, 2019 through at least June 5, 2019. After June 5, 2019, water flow through Warren Crossing became more intermittent at the surface at this location along Warren Creek and had surface water flows at least during the night and morning hours daily there through at least the end of June 2019. For those times that surface flow was not present, water flowed underground near the surface and reemerged as a continuous, persistent visible stream immediately above the Boulder Bay area of Lake Poway through at least August 10, 2019.²

In the City of Poway, anthropogenic sources of pollutants—namely unpermitted discharges of dredged and fill materials placed around culverts and other conveyances including constructed fords installed by the City and/or by private third parties in Warren Canyon and unpermitted hydromodification of Warren Creek, including wetlands vegetation removal, throughout Warren Canyon caused by humans – have become mobilized and discharged into the mouth and other portions of Warren Creek and into Lake Poway as an unreasonable amount of waste from and through Poway's point sources in violation of its 2013 MS4 Permit. The approximate location of the washed-out, unpermitted point-source culverts and other conveyances³ including washed-out constructed fords as a result of the February 2017 and February 2019 winter storms (February 27-28, 2017 and February 14-16, 2019 more specifically) in Warren Canyon are as follows:

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a. 33.001298, -117.003004 (APN: 278-290-1100);
b. 32.998925, -116.998575 (APN: 278-300-5000);
c. 32.998802, -116.997127 (APN: 278-300-5900);
d. 33.001296, -117.003004 (APN: 278-290-0600);
e. 32.9990, -116.9961 (APN: 278-200-1900);
f. 32.9992, -116.9934 and 32.9993, -116.9927 (APN: 278-200-0700);
g. 32.998671, -116.981069 (APN: 278-200-0200);
h. 32.998204, -116.977989 (APN: 278-210-1500);
i. 32.9980, -116.9761 (APN: 278-210-1800);
j. 32.9990, -116.9756 (APN: 278-210-1800);
k. 32.998103, -116.976631 (APN: 278-210-1600);
l. 32.9992, -117.0003 (APN: 278-300-6000); and
m. 33.0030, -117.0057 (APN: 278-280-2300).
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These unpermitted discharges have caused and are causing and are threatening to cause a condition of pollution in Lake Poway. Septic tanks are located in proximity to many of these conveyances listed above (a through m) in Warren Canyon, have not been documented and monitored by the City of Poway as required by the 2013 MS4 Permit, and have contributed to

² In the winter, spring, and summer of 2019, Kelly Spring, located at 32.9998 Latitude, -116.9749 Longitude, continually fed Lake Poway via Warren Creek through Warren Canyon as a visible stream of surface water from February 5, 2019 to at least July 15, 2019. In the winter and spring of 2017, Kelly Spring on Mount Woodson continually fed Lake Poway from February 27, 2017 through at least April 16, 2017.

³ Neither the City of Poway nor the residents of Warren Canyon procured valid Clean Water Act permits for the stream crossings from the Department of the Army or the San Diego Water Board during the past 30 years.

some of the recurring pollutants downstream into Poway's MS4.⁴ The man-made conveyances in Warren Canyon listed above were mostly washed out on (or around) February 27-28, 2017 and again on (or around) February 14-16, 2019. However, residual waste continued to be washed down into Lake Poway before and after those dates via stormwater and non-stormwater. The pollution is ongoing because the waste remains in the mouth and other portions of the creek and has become further and further discharged into the reservoir with each passing year and each large storm event and because waste – i.e. unauthorized discharges such as unpermitted dredged and fill and earth eroded from tractors – has been subsequently added to Warren Creek by the City and by other Poway residents of Warren Canyon after the winter storms of 2017 and 2019 without the proper permits. The following parcels have unpermitted rebuilt crossings constructed after the winter 2017 storms: APNs: 278-200-0700; 278-200-1900; 278-280-2300; 278-290-1100; 278-300-5900; 278-290-0600; 278-210-1500; 278-300-6000; 278-200-0200; 278-300-5000; 278-280-2300; and APN: 278-210-1600.

Lake Poway is being affected by waste to the extent that the reservoir is regularly losing its storage capacity, even more dramatically as shown after the February 14-16, 2019 winter storms (see May 24, 2019 Notice of Violations (NOV) Letter, Exhibit 2), and recreational activities such as fishing are being impaired because of deleterious deposits removing fishing spots and causing turbidity, eutrophication, and coloration of the waters from iron, nitrogen, and phosphorous-rich water and sediment. The effects of these discharges are the overabundance of harmful cyanobacteria and other algal blooms occurring in Lake Poway affecting aquatic health and recreation including boating, fishing, and nearshore aesthetic enjoyment, the exceedances of indicator bacteria such as Enterococci sp. harming REC-1 beneficial uses such as fishing, the closure of certain portions of Lake Poway including at Hidden Bay due to swamp-like conditions, the use of toxic copper-based algaecides near Boulder Bay and Hidden Bay to combat eutrophication, and the forced reduction of the water levels and the storage capacity of Lake Poway due to the waste blockage and resulting effects. In its JRMP, the City has adopted the BMPs #1 and #14 and has committed to remove waste deposits and eroded soils (abatement) from illegal connections in its MS4 that are causing or threatening to cause a condition of pollution in receiving waters. However, the City of Poway continues to refuse to remove these waste deposits throughout Warren Canyon including at Warren Crossing and at the mouth of Warren Creek at the Boulder Bay area of Lake Poway.

The City of Poway has identified in the public record that spring water flows in its MS4 and

⁴ In addition to the parcels listed above (subpoints a through m), the following parcel contains a septic system that has not been documented and monitored by the City of Poway: APN: 278-210-2400.

⁵ Arguably, the requirements for Priority Development Projects of Provision E.3.b. of the 2013 MS4 Permit were triggered by the rebuilding projects in Warren Canyon including on City property for the following reasons: the area affected by the rebuilding projects, including at Warren Crossing and at the Lake Poway boat dock replacement project in 2017 as well as the area affected by the reduced reservoir levels in 2017, totals more than one acre. See Provision E.3.b(1)(f). The City of Poway has not fulfilled the requirements for Priority Development Projects under Provision E.3.b. in Warren Canyon in 2017 with all of the rebuilding activity in Warren Canyon in 2017, including those unpermitted projects on private property, which also cover more than one acre of rebuilding and also triggered the requirements of Provision E.3.b.

reaches Lake Poway, and Poway's JRMP has identified the following pollutants coming from its MS4 in Warren Canyon: Indicator Bacteria, Color, Manganese, Mercury, Nitrogen, pH, Phosphorous, Viruses, Turbidity, and Nutrients. The non-storm spring water discharges of pollutants into Lake Poway have recurred seasonally because waste from washed-out unpermitted crossings and other wetland destruction activity remains in the creek/MS4 and because non-storm spring water assimilates pollutants from various unpermitted (and illicit) point-sources in Warren Canyon including stream crossings and leaking septic tanks, leading to the non-storm water discharge of sediment and other pollutants into Lake Poway. Discharges of non-storm spring water directly from Rock Haven (Rock Haven Spring), and from Mount Woodson (Kelly Spring, located at 32.9998 Latitude, -116.9749 Longitude) into the City of Poway's MS4 and into Lake Poway are also themselves sources of soluble phosphorous, nitrogen, and iron pollutants aggravating a condition of pollution in Lake Poway as described above. Because Warren Canyon and Lake Poway are City-designated Environmentally Sensitive Areas and because these areas are being fed with non-storm water discharges containing pollutants exceeding non-storm water action levels (NALs) as set forth in the 2013 MS4 Permit, Provision C, on a regular basis during the winter and spring months of non-drought years as shown in the exhibits attached to the May 24, 2019 NOV and in Exhibit 11 attached to this letter, the City of Poway must address these flows as a priority concern as required by Provisions B.5 and E.2.d and must use the resources that it most definitely has to reduce these flows as required by Provision E.2.a.(6) and (7) as well as the City of Poway's JRMP (BMP #11). The City of Poway, though inadvertently identifying that groundwater containing pollutants comes from Warren Canyon into its MS4, has not minimized the polluted spring water before it flows into its MS4 by undertaking feasible projects such as constructing water-trapping weirs and repairing wetlands damaged by humans upstream of the lake. If Poway chooses not to address the non-storm spring waters that are contributing pollutants to Lake Poway as required by the 2013 MS4 Permit, the City must then obtain a separate NPDES permit for the discharges.

Provision E.2.d describes the measures that the City must take to investigate and eliminate illicit discharges to the MS4. Provision E.2.d.(1) requires the City to "prioritize and determine when follow-up investigations will be performed in response to visual observations . . . of a detected non-storm water or illicit discharge to or from the MS4 . . . causing or contributing, or threatening to cause or contribute to impairments in water bodies . . . in environmentally sensitive areas (ESAs)" and for "[p]ollutants identified as causing or contributing to an exceedance of a NAL." 2013 MS4 Permit, Provisions E.2.d.(1), E.2.d.(1)(b), and E.2.d.(1)(d). Poway has not adequately responded to Plaintiff's May 24, 2019 NOV documenting non-storm water and illicit discharges in Warren Canyon and Lake Poway, city designated ESAs, and it must respond to the reports of illicit connections in Warren Canyon including from unpermitted stream crossings and from undocumented and unmonitored septic tanks as addressed in this letter. Under Provisions E.2.d.(2) and E.2.d.(3), the City is also required to respond to a citizen's reports of non-storm water flows within Warren Canyon and the resulting polluted non-storm water discharges into Lake Poway with its own investigation and must maintain records of the discharges and their sources and the methods used to control them. The City has failed to do so. Finally, under Provision E.2.d.(4), each Copermittee must submit a summary of all detected non-storm water discharges with each WQIP annual report required by Provision F. The City continues to fail to do so in an accurate and thorough fashion for years 2017, 2018, and 2019.

The pollutants present in the spring water from Kelly Spring and from Rock Haven Spring, including the assimilated sediment pollutants from unpermitted culvert crossings, unpermitted

wetlands damage in Warren Canyon from tractors (anthropogenically influenced sources), and failing septic tanks, have been added to Lake Poway through a point source (including through Warren Crossing and through Fisherman's Footbridge located at 33,0039 Latitude, -117,007 Longitude) and have aggravated a condition of eutrophication pollution, waste blockage pollution, and harmful bacterial loads in the reservoir. Even if no one from the City has never explicitly identified the spring water as a source of pollutants through its MS4 in Warren Canyon, the 2013 MS4 Permit still requires the City to reduce or eliminate non-storm water discharges such as water from springs to the MS4, where feasible and when priorities and resources allow, unless the City obtains a separate NPDES permit for the non-storm water discharges. 2013 MS4 Permit, Provision E.2.a.(7). In other words, there is no requirement in Provision E.2.a.(7) of the 2013 MS4 Permit that the City or the San Diego Water Board specifically identify the spring water as "a source of pollutants to receiving waters;" if a citizen can prove that the City has failed to implement the various requirements of Provision E.2.d of its 2013 MS4 Permit that would have uncovered the pollutants in the spring water or has failed to respond to valid reports of non-storm water containing pollutants through its MS4, he can in turn seek the enforcement of Provision E.2.a.(7) through a citizen enforcement action. Here, the spring water with assimilated pollutants can feasibly be reduced before it enters the City's MS4 through wetland repair projects in Warren Canyon; the City of Poway has the resources to put the plans into place; and the non-storm water discharges into Lake Poway must be addressed as a "priority" as that term is defined in the 2013 MS4 Permit, including Provisions E.2.d. Even though the City of Poway has not yet included the discharges from Warren Canyon into Lake Poway as an area of priority concern in its current WOIP, Poway would have identified the persistent dry weather flows in Warren Canyon – the non-storm spring water discharges - as a "source of pollutants to receiving waters" and as a priority had it been adhering to the requirements of Provision E.2.d and other sections of the 2013 MS4 Permit. Poway's discharges (including the discharges of third parties within and under its jurisdiction) that are causing a condition of pollution in Lake Poway are inherently in violation of the waste discharge prohibitions incorporated in the San Diego Water Board's Basin Plan in violation of Provision A.1.c. These MS4 discharges have contributed to a violation of water quality standards for sediment, phosphorous, iron, total nitrogen, and indicator bacteria, including those in the Basin Plan. 2013 Permit, Provision A.2.a. and A.2.a.(1). The City of Poway must comply with the discharge prohibitions in its 2013 MS4 Permit, Provision A.1.a at a minimum because the polluted water contained a large amount of non-storm spring water that is traceable to Rock Haven Spring and to the seasonal springs on Mount Woodson including Kelly Spring. As a result of its control of land areas that are generating polluted stormwater and non-stormwater, the City of Poway has caused and contributed to, and is causing, contributing to, and threatening to cause, pollution in the wetlands and other waters of Warren Canyon and into Lake Poway, which are all considered waters of the United States.

The City has failed to identify the location and the health of septic tanks throughout Warren Canyon within City limits in 2017, 2018, and 2019. Septic tanks are located in proximity to several of the aforementioned point sources in Warren Canyon. At least one these septic tanks was failing in 2019 and contributed some of the nutrient and bacterial pollutants at Warren Crossing and into Lake Poway. Each Copermittee is responsible for prioritizing its efforts to eliminate non-storm water and illicit discharges or connections to its MS4 based on field screening and monitoring data including satellite imagery, the non-storm water action levels (NALs) of Provision C to support the detection and elimination of non-storm water and illicit discharges to the MS4, required pursuant to Provision E.2, and illicit discharge investigation records collected from septic tank monitoring and monitoring of unpermitted structures such as stream crossings.

Sources of non-storm water and illicit discharges or connections must be eliminated by enforcing the legal authority established by each Copermittee pursuant to Provision E.1 and by reducing non-storm water flows containing pollutants as mandated by Provision E.2.a and Poway's JRMP. Each Copermittee must implement practices and procedures to prevent and limit infiltration of seepage from sanitary sewers (including private laterals and failing septic systems) to the MS4. 2013 MS4 Permit, Provision E.2.b.(5). Poway continues to refuse to protect its watershed feeding its reservoir by failing to implement Provision E.2.b.(5) with regard to Warren Canyon and the dozen of septic tanks installed throughout the canyon. The City's legal authority must also control the discharge of spills, dumping, or disposal of materials and other unpermitted fills and mobile pollutants into its MS4 in the interconnected privately owned storm water conveyance system within its jurisdiction and parts controlled by other entities such as Caltrans. 2013 MS4 Permit, Provisions E.1.a.(1-10) and E.2.d.(3)(c). Poway fails to fulfill these requirements and protect its own watershed into Lake Poway.

As Poway has not used the "Prohibitions and Limitations Compliance Option" as outlined in Provision B.3.c.(1) and (2) with respect to its stormwater and non-stormwater discharges of polluted sediment and spring water flows containing pollutants such as phosphorous, iron, indicator bacteria, and nitrogen that are aggravating a condition of pollution in receiving waters in the SDR watershed (no numeric goals were set for any of these constituents and there was no public participation process addressing the "option"), Poway is liable under Provision A and must implement Provisions A.4 and E.2 and properly address the flows containing pollutants from Kelly Spring and Rock Haven Spring together with the unpermitted waste deposits from washedout stream crossings into its MS4. The original 2013 MS4 Permit did not include a "Prohibitions and Limitations Compliance Option" as a way to be deemed in compliance with the discharge prohibitions of Provision A. The optional "Prohibitions and Limitations Compliance Option" as described in Provision B.3.c.(1) and (2) was added to the 2013 MS4 Permit by R9-2015-01 00. which became effective on January 7, 2016. Poway's current non-optional Water Quality Improvement Plan was presented to the San Diego Water Board in September of 2015 which was before the existence of the "Prohibitions and Limitations Compliance Option" and its rigorous requirements including public participation as required by Provision B.3.c.(1)(b)(ii). Poway's current non-optional WQIP cannot satisfy Provision B.3.c. as a matter of law, and Poway must undergo the rigorous process described in Provision B.3.c. in the future if it desires to utilize the "Prohibitions and Limitations Compliance Option,"6

SPECIFIC EXCEEDANCES

Certified hydrogeologist (California Professional Geologist #3713 and California Certified Hydrogeologist #90), who was employed by the County of San Diego for over 20 years as its groundwater expert and CEQA regulatory manager, has conducted water quantity and water quality monitoring of Kelly Spring and Rock Haven Spring using EPA protocols to establish that Warren Creek is a seasonal, intermittent stream fed by persistent groundwater flows and to identify any pollutants from these water sources that are transported to receiving waters of the United States. (has conducted 24-hour dry weather monitoring of the spring water flows on April 13-14, 2019 to capture the varying flow rates from Kelly Spring and Rock Haven

⁶ In contrast, the San Juan Watershed Management Area Plan approved on June 18, 2018 by the San Diego Water Board does specifically utilize and describe the "Prohibitions and Limitations Compliance Option" of Provision B.3.c, and this process has been documented and approved by the San Diego Water Board in its acceptance letter.

Spring and to obtain flow-weighted composite samples for water quality monitoring pursuant to the strictures of Provision D of the 2013 MS4 Permit. John Peterson also conducted dry weather, dry season monitoring of the spring water flows into Lake Poway on June 4, 2019. The results have demonstrated that the water from Kelly Spring (N-Kelly) contains iron and phosphorous pollutants that exceed the NALs established in the City of Poway's JRMP, the 2013 MS4 Permit, and the San Diego Basin Plan, on April 13-14, 2019 and on June 4, 2019. The results also demonstrated that the water from Rock Haven Spring (S-Rock) contains total nitrogen and total phosphorous pollutants that exceed the NALs established by the City of Poway's JRMP, 2013 MS4 Permit, and the San Diego Basin Plan, on April 13-14, 2019. 24-hour water quality monitoring was also conducted in the receiving waters of the United States at Warren Crossing (the City of Poway's MS4) in the damaged wetland and other waters that are directly adjacent to Lake Poway on April 14-15, 2019 according to the strictures of Provision D.1 of the MS4 Permit. The analysis of the flow-weighted composite sample at Warren Crossing has showed that the pollutants from Rock Haven Spring and from Kelly Spring reach the receiving waters of the United States as exceedances of phosphorous and nitrogen NALs are exhibited there as well on April 14-15, 2019. The overall ratio of total nitrogen to total phosphorous (TN: TP) in the discharges is much lower than permissible, allowing harmful cyanobacteria to flourish and a condition of eutrophication to persist in Lake Poway, including on April 14-15, 2019 and in the spring of 2019. Man-caused wetlands destruction in Warren Canyon including in the area surrounding Kelly Spring has resulted in increased pollutant loads downstream and into the reservoir. Water quality monitoring conducted on March 18, 2019, March 21, 2019, March 28, 2019, April 2, 2019, April 10, 2019, May 4-5, 2019 (dry weather monitoring during the dry season), May 30-31, 2019 (dry weather monitoring during the dry season), and June 4, 2019 (dry weather monitoring during the dry season) also confirm that phosphorous levels exceeding NALs from Kelly Spring flow through Warren Crossing and Fisherman's Footbridge and enter Lake Poway on a persistent basis during the winter and spring months when stream waters flow through Warren Canyon during typical non-drought years. Furthermore, the results from the toxicity tests confirm that the nutrient-rich spring waters contribute to the overabundance of algae as compared to the controls in the studies (both the controls and the samples were supplied with nutrients during the experiments; the additional nutrients present in the spring water samples taken on April 15, 2019 and May 5, 2019 resulted in the samples performing better than the controls). Although the subwatershed containing Rock Haven Spring is approximately the same size as the subwatershed area containing Kelly Spring, water flow from Rock Haven Spring occurred over a shorter period of time during the 2019 season, from February 14, 2019 to May 31, 2019, as compared to Kelly Spring. Water from Kelly Spring started flowing on February 5, 2019 and continued to flow through at least July 15, 2019 and into Lake Poway during that time frame.

During major rain events including during the winter and springs months of 2019, stormwater flows freely over exposed materials of the stream crossings and sediment buildup, becoming contaminated with bacteria, color, manganese, iron, mercury, nitrogen, pH, phosphorus, viruses, turbidity, and nutrients at levels above applicable water quality standards for several of these constituents. The polluted water then flows untreated and unfiltered into Lake Poway. For weeks and months in a typical year, non-storm spring water flows freely over exposed materials of the stream crossings and sediment buildup, becoming contaminated with bacteria, color, manganese, iron, mercury, nitrogen, pH, phosphorus, viruses, turbidity, and nutrients at levels above applicable water quality standards for several of these constituents. The contaminated non-storm water then flows untreated into the City's MS4 and into Lake Poway. Specific discharges include:

- 1. More than 90% of the time when the stream flow through Warren Crossing consisted of dryweather, non-storm spring water between the months of mid-March, April, May and mid-June 2019, the permitted MS4 contribution of phosphorous into Warren Creek and into Lake Poway (0.1 mg/L maximum daily action level (MDAL) non-storm water action level (NAL)) has been exceeded, oftentimes at levels double the amount allowable under the City's MS4 Permit, Poway's Jurisdictional Runoff Management Plan (JRMP), and the San Diego's Basin Plan.
- 2. From February 16, 2019 to March 28, 2019, the permitted MS4 contribution of iron into Warren Crossing and into Lake Poway from non-storm water discharges (0.3 mg/L maximum daily action level non-storm action level (NAL)) was exceeded more than 50% of the time. (See Exhibits 6 (May 24, 2019 NOV) and 11 (attached).)
- 3. The turbidity levels exceeded the storm water action levels (SALs) on February 14 and 15, 2019 at the mouth of Warren Creek at Fisherman's Footbridge.
- 4. The turbidity levels exceeded the storm water action levels (SALs) on February 27 and 28, 2017 at the mouth of Warren Creek at Fisherman's Footbridge.
- 5. Total Nitrogen levels of discharges from Warren Crossing into Lake Poway exceeded the NAL as adopted in Poway's JRMP periodically and on at least two occasions between February 5, 2019 and June 5, 2019.
- 6. Exceeding a NAL as established in the Basin Plan, the 2013 MS4 Permit, and Poway's JRMP is evidence that non-storm water has been anthropogenically influenced.
- 7. One of the main sources of soluble phosphorous into the City of Poway's MS4 is from Kelly Spring, located at 32.9998 Latitude, -116.9749 Longitude, which is under the City of Poway's jurisdiction and on Plaintiff's property. Total Phosphorus levels from discharges from Kelly Spring exceeded the NAL more than 90% of the time between March 18, 2019 and June 5, 2019.
- 8. On March 18, 2019, exceedances of the NALs for iron and phosphorous occurred at Warren Crossing.
- 9. On March 28, 2019, exceedances of the NAL for phosphorous occurred at Fisherman's Footbridge.
- 10. On April 14-15, 2019, exceedances of the NALs for total phosphorous and total nitrogen occurred at Warren Crossing.
- 11. On May 4-5, 2019, exceedances of the NALs for total phosphorous and for Enterococcus occurred at Warren Crossing.
- 12. On May 30-31, 2019, exceedances of the NALs for phosphorous and for Enterococcus occurred at Warren Crossing.
- 13. On June 4, 2019, exceedances of the NALs for phosphorous and for Enterococcus occurred at Warren Crossing.
- 14. The location of Rock Haven Spring is part of the public record as it is located in Caltrans' right of way within the City of Poway. The 2013 MS4 Permit mandates that the City of Poway is jointly responsible for discharges from Rock Haven Spring. Provision E.2.b.(6).
- 15. By June 13, 2019, volume flows from Kelly Spring dropped below 5 gallons per minute and the reduced volume flows resulted in discharges below the NAL for total phosphorous due to biological uptake.
- 16. Over the last 50 years, including as recently as 2016, the residents of Warren Canyon have altered the wetland system surrounding Kelly Spring, resulting in the reduction of its phosphorous-retention capacity.
- 17. Other wetland systems in Warren Canyon including on the City owned property surrounding Warren Crossing, located at 33.003 Latitude, -117.006 Longitude, have also lost pollutant-

- retention capacity as a direct result of anthropogenic activity.
- 18. Increased nutrient concentrations such as nitrogen and phosphorous in natural water systems, can impact water quality and clarity and contribute to algae blooms that impact native vegetation and interfere with the springs' ecosystems and Lake Poway's ecosystem. Increases in nutrients in Poway's ecosystems and water resources result from a variety of activities, including illegal earth moving activities over the creek, unpermitted dirt-backfilled culverts and/or fords at approximately a dozen locations upstream of Lake Poway, wetlands vegetation removal in the area surrounding Kelly Spring and in the area surrounding Warren Crossing, and failing septic tanks in Warren Canyon.
- 19. Biological uptake of pollutants such as nitrogen and phosphorous from the spring water in Warren Canyon has been reduced by wetland destruction at specific locations in Warren Canyon, including at Warren Crossing and on APN: 278-210-1800, the parcel containing Kelly Spring.
- 20. Excessive bacterial and nutrient levels of the spring water discharges as measured at Warren Crossing through the months of February, March, April, May, and June 2019 which exceeded NALs listed in Poway's JRMP indicated that leaking septic tanks in Warren Canyon have contributed to some of the pollution in Lake Poway.
- 21. On April 15, 2019, the single sample result registered exceedances of the Enterococcus limit (500/100 mL) NAL at Warren Crossing.
- 22. On May 5, 2019, the single sample result registered exceedances of the Enterococcus limit (240/100 mL) NAL at Warren Crossing.
- 23. On May 5, 2019, the single sample result registered exceedances of the fecal coliform limit (1600/100 mL) NAL at Warren Crossing.
- 24. On May 31, 2019, the single sample result registered exceedances of the Enterococcus limit 130/100 mL) NAL at Warren Crossing.
- 25. On June 4, 2019, during the dry season, the single sample result registered exceedances of the Enterococcus limit (240/100 mL) NAL at Warren Crossing.
- 26. Exceedances of NALs on various dates in the spring of 2019 in Warren Canyon demonstrate that the various exceedances are not one-time, isolated occurrences; rather exceedances of NALs will recur on a seasonal basis during the winter and spring months of non-drought years in Warren Canyon. Thus, the City of Poway must address the exceedances of the NALs for various constituents through implementing 2013 MS4 Permit, Provision E.2.a.(6) and Poway's JRMP, BMP #11. See Provision E.2.d.(3)(c) of the 2013 MS4 Permit.

PENALTIES AND REMEDIES

Poway has discharged and continues to discharge unreasonable amounts of sedimentation pollution waste (and other assimilated pollutants such as phosphorous in storm water and non-storm water) from its MS4 in a manner that is causing, or threatening to cause, a condition of pollution – i.e. the loss of municipal storage capacity, harm to recreational activities such as fishing and nearshore aesthetic enjoyment, and harm to aquatic species through threatened eutrophication and the toxic effects of copper sulfate – in Warren Canyon and in Lake Poway, a receiving water of the state and WOTUS, in violation of its 2013 MS4 Permit, Provision A.1.a. The violations of the 2013 MS4 Permit's discharge prohibitions continue to this day because the polluted sediment has not been removed, which has lessened the reservoir's storage capacity. The polluted sediment containing phosphorous and nitrates waste is also threatening to cause eutrophication in the Boulder Bay area of Lake Poway in the future. Between February 27, 2017 and April 17, 2017, each day that the City of Poway has caused, contributed to, threatened to

cause, or failed to mitigate polluted stormwater and non-storm water flows through its MS4 is a separate and distinct violation of the 2013 MS4 Permit and 33 U.S.C. §§ 1311(a) and 1342(p) and subject to civil penalties. Between February 5, 2019 and June 5, 2019, each day that the City of Poway has caused, contributed to, threatened to cause, or failed to knowingly mitigate polluted stormwater and non-storm water flows through its MS4 is a separate and distinct violation of the 2013 MS4 Permit and 33 U.S.C. §§ 1311(a) and 1342(p) and subject to civil penalties. In 2017, 2018, and 2019, the City has not properly addressed the non-storm spring water flows that are a source of pollutants to its MS4 above Lake Poway which are aggravating a condition of pollution in Lake Poway. These violations are ongoing and continuous because the City of Poway has not fully enforced the law against private property owners in Warren Canyon who have their own unpermitted discharges of dredge and fill materials in Warren Creek, including maintained, tractor-disturbed crossings in 2017, 2018, and/or 2019. The City of Poway will continue to violate the Clean Water Act in the future unless and until the City is instructed by a federal district judge that the Clean Water Act is applicable to Lake Poway and its watershed area. The City of Poway will continue to violate the Clean Water Act in the future unless and until the City is instructed by a federal district judge to dredge the Boulder Bay area of Lake Poway, remove the waste pollution deposited there, and restore the stream and wetlands there. The City of Poway will continue to violate the Clean Water Act in the future unless and until the City is instructed by a federal district judge to dredge the Warren Crossing area, remove the waste pollution deposited there, and restore and re-establish the wetlands there. The City of Poway will continue to violate the Clean Water Act in the future unless and until the City is instructed by a federal district judge to commence enforcement actions under the Clean Water Act against those in Warren Canyon who have maintained illegal stream crossings over Warren Creek without the proper permits. Unless the City of Poway desists in its violations of the 2013 MS4 Permit and Sections 301(a) and 402(p) of the CWA, 33 U.S.C. §§ 1311(a) and 1342(p), Plaintiff will suffer irreparable harm. From February 27, 2017 to the present, each day that the City has caused, contributed to, or failed to prohibit exceedances of water quality standards by allowing unpermitted waste to remain and accumulate in Warren Canyon and Lake Poway is a separate and distinct violation of the applicable 2013 MS4 Permit and 33 U.S.C. §§ 1311(a) and 1342(p). These violations are ongoing and continuous. In light of the City's history of violations and the nature of the violations, the City will continue to violate these requirements in the future unless and until enjoined from doing so. By committing the acts and omissions alleged above, Defendant City is subject to an assessment of civil penalties for each violation of 33 U.S.C. § 1311(a). See 33 U.S.C. §§ 1319(d), 1365, and 40 C.F.R. § 19.4 (February 6, 2019). An action for injunctive relief under the Clean Water Act is authorized by 33 U.S.C. § 1365(a), and Plaintiff will seek an injunction ordering the City of Poway to cease activities in violation of the Clean Water Act and to undertake activities to remedy the violations.

To remedy the situation and to the improve the water quality of downstream waters including at Warren Crossing and at Lake Poway, surface water expert Tory Walker, P.E. has proposed the wetlands repair projects as described in the May 24, 2019 NOV, Exhibit 7, to address the spring water flows through Warren Canyon by reducing those flows and retaining more of the phosphorous and other pollutants in those flows within engineered wetlands <u>before</u> they enter the City's MS4 at Warren Crossing and into Lake Poway. Minimizing non-storm water flows through wetland repair projects at this location and in other locations in Warren Canyon including at Warren Crossing would lessen the concentration of pollutants in the non-storm water through biological uptake.

CONCLUSIONS

Absent a consent decree approved by the Court and the EPA, Notifier, through counsel, intends, at the close of the sixty (60) day notice period, to amend Plaintiff Kevin T. Kelly's lawsuit or file another citizen lawsuit under Section 505 of the Clean Water Act against the City of Poway, seeking injunctive relief, remedial relief, declaratory relief, and civil penalties for each day of each violation for each U.S. water body over the past five (5) years and sixty (60) days from the date of this notice relating to the illegal discharges through the date of this letter and all violations of Section 301 of the Clean Water Act and violations of the City's 2013 MS4 Permit which occur subsequent to the date of this letter, plus costs, attorney and expert witness fees, and such other relief as may be appropriate. Notifier will also seek removal of the pollutants from waterways as such discharges constitute illegal fill material in violation of Sections 301 and 404 of the Clean Water Act. Notifier intends, at the close of the sixty (60) day notice period, to file a citizen suit under § 505 of the Clean Water Act, 33 U.S.C. §1365, against the City of Poway for the applicable statutory maximum for each violation, presently \$54,833 per day for each violation. 33 U.S.C. §1319(d) and 40 C.F.R. §19 and §19.4 Table 1 (or as otherwise provided by federal regulations). Civil penalties are mandatory once violations are found by a federal judge or jury. 33 U.S.C. §1319(c); Leslie Salt Co. v. United States, 55 F.3d 1388, 1396 (9th Cir. 1995) (civil penalties under Clean Water Act are mandatory, not discretionary).

During the sixty (60) day notice period, we will be available to set up a meeting with our team of scientific experts and discuss effective remedies and actions which will assure the Discharger's future compliance with the Clean Water Act and all applicable state water pollution control laws. In addition, we welcome discussion about whatever facts you believe are relevant which are not itemized in this notice letter. If you wish to avail yourself of this opportunity, please contact the undersigned.

Respectfully submitted on October 1, 2019,

Raj P. Singh

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FEBRUARY 16, 2019, FEBRUARY 18, 2019, FEBRUARY 28, 2019, AND

MARCH 11, 2019.





Analytical, Inc.

14 June 2019



EMA Log #: 19E1059

Project Name: Testing

Project Desc./#: May 31, 2019

Enclosed are the results of analyses for samples received by the laboratory on 05/31/19 13:00. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that this data is in compliance both technically and for completeness.

Dan Verdon

Laboratory Director

CA ELAP Certification #: 2564

Client Name: Project Name: Testing

EMA Log #: 19E1059

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N Kelly	19E1059-01	Drinking Water	05/31/19 09:40	05/31/19 13:00
Warren Crossing	19E1059-02	Drinking Water	05/31/19 11:00	05/31/19 13:00



Total Metals by EPA 200 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
N Kelly (19E1059-01) Drinking Water	Sampled: 05	5/31/19 09:40	Received:	05/31/19	13:00				
Cadmium	ND	0.001	mg/l	1	9060430	06/04/19	06/05/19	EPA 200.8	
Copper	ND	0.010	**	"		e	**	"	
Iron	0.323	0.050	"	**	**		"	и	
Manganese	0.005	0.005	n	*	#	"	"	"	
Lead	ND	0.005	**	"		**	"	н	
Zinc	ND	0.020	*	"	•	"	*	"	
Warren Crossing (19E1059-02) Drinkin	g Water Sa	mpled: 05/31/	19 11:00	Received:	05/31/19 1	3:00			
Cadmium	ND	0.001	mg/l	1	9060430	06/04/19	06/05/19	EPA 200.8	
Copper	ND	0.010		**	"	"		п	
Iron	0.052	0.050		**			"	#	
Manganese	0.005	0.005	н	IF	D	н		u	
Lead	ND	0.005	11	"	"	"	n		
Zinc	0.027	0.020	11	11	*		**	•	



Metals (Dissolved) by EPA 200 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
N Kelly (19E1059-01) Drinking Water	Sampled: 05	5/31/19 09:40	Received	05/31/19	13:00				
Cadmium	0.001	0.001	mg/l	1	9060361	06/03/19	06/03/19	EPA 200.8	
Chromium	ND	0.005	"	*	"	**		**	
Copper	ND	0.010			*	**	н		
Iron	0.278	0.050		*	*	**	06/05/19	n	
Lead	ND	0.005	,,	"	ir		06/03/19	•	
Zinc	ND	0.020	"		*	*		**	
Warren Crossing (19E1059-02) Drinkin	g Water Sa	mpled: 05/31/	19 11:00	Received:	05/31/19 1	3:00			
Cadmium	ND	0.001	mg/l	1	9060361	06/03/19	06/03/19	EPA 200.8	
Chromium	ND	0.005		**	*	•	"	**	
Copper	ND	0.010	*	*		"	"	•	
Iron	ND	0.050		"	*	"	06/05/19		
Lead	ND	0.005	"	11	*	**	06/03/19	н	
Zinc	0.023	0.020		**	ur .		**	**	



Conventional Chemistry Parameters by Standard/EPA Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
N Kelly (19E1059-01) Drinking Water	Sampled: 05	5/31/19 09:40	Received:	05/31/19 1	3:00				
Ammonia as N	ND	0.10	mg/l	1	9053142	06/03/19	06/03/19	EPA 350.1	
Color	44	1	Color Units	"	9060369	05/31/19	05/31/19	SM2120 B	
Specific Conductance (EC)	432	1.00	umhos/cm	"	9061065	06/10/19	06/10/19	SM2510 B	
Hardness (Total)	197	10	mg CaCO3/L	*	9061046	06/10/19	06/10/19	EPA 200.7	
Methylene Blue Active Substances	ND	0.5	mg/l		9060366	05/31/19	05/31/19	SM5540 C	
Nitrate/Nitrite as N	0.07	0.05		**	9060609	06/06/19	06/06/19	EPA 353.2	
Total Kjeldahl Nitrogen	ND	0.5	*	**	9061038	06/10/19	06/11/19	EPA 351.2	
Dissolved Oxygen	9.37	0.10	•	"	9060425	05/31/19	05/31/19	SM4500-O G	HT-15
pH at 25 deg C	6.83	0.10	pH Units	**	9060367	05/31/19	05/31/19	SM4500-H+B	HT-15
Orthophosphate as P	0.09	0.05	mg/l	**	9053145	05/31/19	05/31/19	SM4500 PE	
Phosphorus, Total	0.16	0.05		"	9060389	06/04/19	06/04/19	SM4500 PB, E	
Total Dissolved Solids	315	20.0		42	9060719	06/06/19	06/07/19	SM2540 C	
Total Suspended Solids	ND	20.0	*	•	9060717	06/06/19	06/07/19	SM2540 D	
Turbidity	3.50	0.05	NTU		9060370	05/31/19	05/31/19	SM2130 B	
Warren Crossing (19E1059-02) Drinkin	ng Water Sa	mpled: 05/31	/19 11:00 R	eceived:	05/31/19 1	3:00			
Ammonia as N	ND	0.10	mg/l	1	9053142	06/03/19	06/03/19	EPA 350.1	
Color	31	1	Color Units		9060369	05/31/19	05/31/19	SM2120 B	
Specific Conductance (EC)	856	1.00	umhos/cm	"	9061065	06/10/19	06/10/19	SM2510 B	
Hardness (Total)	48	10	mg CaCO3/L	"	9061046	06/10/19	06/10/19	EPA 200.7	
Methylene Blue Active Substances	ND	0.5	mg/l	*	9060366	05/31/19	05/31/19	SM5540 C	
Nitrate/Nitrite as N	ND	0.05			9060609	06/06/19	06/06/19	EPA 353.2	
Total Kjeldahl Nitrogen	ND	0.5	4	"	9061038	06/10/19	06/11/19	EPA 351.2	
Dissolved Oxygen	9.22	0.10	"	"	9060425	05/31/19	05/31/19	SM4500-O G	HT-15
pH at 25 deg C	7.90	0.10	pH Units	•	9060367	05/31/19	05/31/19	SM4500-H+B	HT-15
Orthophosphate as P	ND	0.05	mg/l	"	9053145	05/31/19	05/31/19	SM4500 PE	
Phosphorus, Total	0.17	0.05	II .	"	9060389	06/04/19	06/04/19	SM4500 PB, E	
Total Dissolved Solids	586	20.0	"	4	9060719	06/06/19	06/07/19	SM2540 C	
Total Suspended Solids	ND	20.0	*		9060717	06/06/19	06/07/19	SM2540 D	
Turbidity	0.65	0.05	NTU		9060370	05/31/19	05/31/19	SM2130 B	





Microbiological Parameters by Standard Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
N Kelly (19E1059-01) Drinking Water	Sampled: 05	5/31/19 09:40	Received:	05/31/19	13:00				
Total Coliforms	240	2	MPN/100 ml	1	9053131	05/31/19	06/04/19	SM 9221 B, E	
Fecal Coliforms	8	2	"		n		06/03/19	**	
Enterococcus	220	2	H	"	9060352	**	06/04/19	SM 9230 A, B	
Warren Crossing (19E1059-02) Drinkin	g Water Sa	mpled: 05/31	/19 11:00 R	Received:	05/31/19 1	3:00			
Total Coliforms	900	2	MPN/100 ml	1	9053131	05/31/19	06/04/19	SM 9221 B, E	
Fecal Coliforms	110	2	ir	"	"		06/03/19	*	
Enterococcus	130	2	•	n	9060352	H	06/04/19	SM 9230 A, B	



Total Metals by EPA 200 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9060430										
Blank (9060430-BLK1)				Prepared:	06/04/19	Analyzed	: 06/05/1	9		
Manganese	ND	0.005	mg/l							
Cadmium	ND	0.001	"							
Zinc	ND	0.020	н							
Copper	ND	0.010	"							
Lead	ND	0.005	**							
Iron	ND	0.050	#							
LCS (9060430-BS1)				Prepared:	06/04/19	Analyzed	: 06/05/19	9		
Zinc	0.102	0.020	mg/l	0.100		102	85-115			
Lead	0.100	0.005	**	0.100		100	85-115			
Manganese	0.104	0.005		0.100		104	85-115			
Iron	0.109	0.050	**	0.100		109	85-115			
Copper	0.101	0.010	"	0.100		101	85-115			
Cadmium	0.106	0.001	*	0.100		106	85-115			
LCS Dup (9060430-BSD1)				Prepared:	06/04/19	Analyzed	: 06/05/19	9		
Iron	0.107	0.050	mg/l	0.100		107	85-115	2	20	
Copper	0.102	0.010		0.100		102	85-115	1	20	
Manganese	0.105	0.005	н	0.100		105	85-115	0.4	20	
Lead	0.106	0.005		0.100		106	85-115	7	20	
Cadmium	0.107	0.001		0.100		107	85-115	1	20	
Zinc	0.103	0.020	*	0.100		103	85-115	1	20	
Duplicate (9060430-DUP1)		Source: 19E09	96-01	Prepared:	06/04/19	Analyzed	: 06/05/19	9		
Copper	0.007	0.010	mg/l		0.007	.		0.3	20	
Zinc	0.008	0.020	*		0.008			0.09	20	
Manganese	0.005	0.005			0.005			2	20	
Cadmium	0.0003	0.001			0.0002				20	
Lead	0.0007	0.005	**		0.0007			2	20	
Iron	0.020	0.050	н		0.015			33	20	QR-04



Total Metals by EPA 200 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9060430										
Matrix Spike (9060430-MS1)		Source: 19E09	96-01	Prepared:	06/04/19	Analyzed	: 06/05/19)		
Iron	0.113	0.050	mg/l	0.100	0.015	98	70-130			
Copper	0.098	0.010		0.100	0.007	92	70-130			
Cadmium	0.102	0.001	*	0.100	0.0002	102	70-130			
Zinc	0.102	0.020	**	0.100	0.008	93	70-130			
Lead	0.103	0.005		0.100	0.0007	103	70-130			
Manganese	0.106	0.005	*	0.100	0.005	101	70-130			
Matrix Spike (9060430-MS2)		Source: 19F00	83-04	Prepared:	06/04/19	Analyzed	: 06/05/19)		
Cadmium	0.106	0.001	mg/l	0.100	ND	106	70-130			
Copper	0.096	0.010	11	0.100	0.001	95	70-130			
Iron	1.17	0.050		0.100	1.11	56	70-130			QM-4X
Manganese	0.144	0.005	*	0.100	0.039	105	70-130			
Zinc	0.106	0.020		0.100	0.006	100	70-130			
Lead	0.106	0.005	"	0.100	0.0006	106	70-130			
Matrix Spike Dup (9060430-MSD1)		Source: 19E09	96-01	Prepared:	06/04/19	Analyzed	: 06/05/19)		
Cadmium	0.103	0.001	mg/l	0.100	0.0002	103	70-130	0.6	20	
Manganese	0.106	0.005		0.100	0.005	101	70-130	0.5	20	
Zine	0.102	0.020		0.100	0.008	93	70-130	0.3	20	
Copper	0.099	0.010	*	0.100	0.007	92	70-130	0.8	20	
Iron	0.112	0.050	11	0.100	0.015	97	70-130	1	20	
Lead	0.106	0.005		0.100	0.0007	105	70-130	2	20	



Metals (Dissolved) by EPA 200 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
	Nesuit	Little	Olina	Level	Result	/UNICC	Limits	NI D	Linitt	Notes	
Batch 9060361											
Blank (9060361-BLK1)				Prepared & Analyzed: 06/03/19							
Chromium	ND	0.005	mg/l								
Cadmium	ND	0.001	"								
Copper	ND	0.010	"								
Iron	ND	0.050									
Zinc	ND	0.020	"								
Lead	ND	0.005	N								
LCS (9060361-BS1)				Prepared a	& Analyze	ed: 06/03/	19				
Chromium	0.099	0.005	mg/l	0.100		99	75-125				
Cadmium	0.102	0.001	"	0.100		102	85-115				
Zinc	0.100	0.020	*	0.100		100	85-115				
Copper	0.100	0.010	•	0.100		100	85-115				
Lead	0.102	0.005	"	0.100		102	75-125				
Iron	0.101	0.050	"	0.100		101	85-115				
LCS Dup (9060361-BSD1)				Prepared a	& Analyze	ed: 06/03/	19				
Chromium	0.098	0.005	mg/l	0.100		98	75-125	1	20		
Cadmium	0.102	0.001		0.100		102	85-115	0.3	20		
Iron	0.101	0.050		0.100		101	85-115	0.2	20		
Zinc	0.099	0.020	"	0.100		99	85-115	0.5	20		
Copper	0.100	0.010	**	0.100		100	85-115	0.5	20		
Lead	0.101	0.005		0.100		101	75-125	1	20		
Duplicate (9060361-DUP1)		Source: 19E10	30-01	Prepared a	& Analyze	ed: 06/03/	19				
Chromium	ND	0.005	mg/l		ND				20		
Cadmium	ND	0.001	,		ND				20		
Lead	ND	0.005			ND				20		
Iron	0.006	0.050	**		0.006			0.3	20		
Zinc	0.003	0.020	**		0.002			5	20		
Copper	0.009	0.010	tr		0.008			4	20		



Client Name: Project Name: Testing

EMA Log #: 19E1059

Metals (Dissolved) by EPA 200 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9060361										
Matrix Spike (9060361-MS1)		Source: 19E10	30-01	Prepared a	& Analyze	ed: 06/03/	19			
Chromium	0.095	0.005	mg/l	0.100	ND	95	75-125			
Cadmium	0.099	0.001	"	0.100	ND	99	70-130			
Lead	0.102	0.005	"	0.100	ND	102	75-125			
Iron	0.101	0.050	*	0.100	0.006	95	70-130			
Zinc	0.097	0.020	"	0.100	0.002	95	70-130			
Copper	0.100	0.010	"	0.100	0.008	92	70-130			
Matrix Spike Dup (9060361-MSD1)		Source: 19E16	30-01	Prepared of	& Analyze	ed: 06/03/	19			
Cadmium	0.098	0.001	mg/l	0.100	ND	98	70-130	0.8	20	
Chromium	0.093	0.005	"	0.100	ND	93	75-125	2	20	
Zinc	0.096	0.020	**	0.100	0.002	94	70-130	1	20	
Iron	0.102	0.050	"	0.100	0.006	95	70-130	0.7	20	
Lead	0.103	0.005	*	0.100	ND	103	75-125	0.9	20	
Copper	0.098	0.010	**	0.100	0.008	89	70-130	2	20	



Conventional Chemistry Parameters by Standard/EPA Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9053142										
Blank (9053142-BLK1)				Prepared &	& Analyze	:d: 06/03/				
Ammonia as N	ND	0.10	mg/l							
LCS (9053142-BS1)				Prepared &	19					
Ammonia as N	0.96	0.10	mg/l	1.00	,	96	90-110			
LCS Dup (9053142-BSD1)				Prepared &	& Analyze	:d: 06/03/	19			
Ammonia as N	0.98	0.10	mg/l	1.00		98	90-110	2	20	
Duplicate (9053142-DUP1)		Source: 19E10	42-05	Prepared &	& Analyze	:d: 06/03/	19			
Ammonia as N	0.08	0.10	mg/l		0.09			12	20	
Matrix Spike (9053142-MS1)		Source: 19E10	42-05	Prepared &	& Analyze	d: 06/03/	19			
Ammonia as N	2.08	0.20	mg/l	2.00	0.09	100	90-110			
Matrix Spike Dup (9053142-MSD1)		Source: 19E10	42-05	Prepared &	& Analyze	d: 06/03/	19			
Ammonia as N	2.03	0.20	mg/l	2.00	0.09	97	90-110	3	20	
Batch 9053145										
Blank (9053145-BLK1)				Prepared &	k Analyze	:d: 05/31/1	19			
Orthophosphate as P	ND	0.05	mg/l							
LCS (9053145-BS1)				Prepared &	& Analyze	d: 05/31/	19			
Orthophosphate as P	0.51	0.05	mg/l	0.500		103	80-120			
LCS Dup (9053145-BSD1)				Prepared &	& Analyze	:d: 05/31/1	19			
Orthophosphate as P	0.52	0.05	mg/l	0.500		103	80-120	0.2	20	



Client Name:	Personal privacy Ex. (b) (6)
Project Name:	Testing

Conventional Chemistry Parameters by Standard/EPA Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9053145										1.000
Duplicate (9053145-DUP1)		Source: 19E10	59-02	Prepared a	& Analyz	ed: 05/31/	19		***	
Orthophosphate as P	0.02	0.05	mg/l	- Topalou	0.02	22. 03/31/		5	20	
Matrix Spike (9053145-MS1)		Source: 19E10	59-02	Prepared a	& Analyze	ed: 05/31/	19			
Orthophosphate as P	0.54	0.05	mg/l	0.500	0.02	103	80-120			
Matrix Spike Dup (9053145-MSD1)		Source: 19E10	59-02	Prepared a	& Analyza	ed: 05/31/	19			
Orthophosphate as P	0.54	0.05	mg/l	0.500	0.02	103	80-120	0.2	20	
Batch 9060366										
Blank (9060366-BLK1)				Prepared a	& Analyze	ed: 05/31/	19			
Methylene Blue Active Substances	ND	0.5	mg/l							
LCS (9060366-BS1)				Prepared a	& Analyze	ed: 05/31/	19			
Methylene Blue Active Substances	1.0	0.5	mg/l	1.00		97	80-120			
LCS Dup (9060366-BSD1)				Prepared a	& Analyze	ed: 05/31/	19			
Methylene Blue Active Substances	1.0	0.5	mg/l	1.00		97	80-120	0.4	20	
Duplicate (9060366-DUP1)		Source: 19E10	59-02	Prepared &	& Analyze	ed: 05/31/1	19			
Methylene Blue Active Substances	ND	0.5	mg/l		ND				20	
Matrix Spike (9060366-MS1)		Source: 19E10	59-02	Prepared a	& Analyze	ed: 05/31/2	19			
Methylene Blue Active Substances	0.9	0.5	mg/l	1.00	ND	94	80-120			
Matrix Spike Dup (9060366-MSD1)		Source: 19E10	59-02	Prepared &	& Analyze	ed: 05/31/1	19			
Methylene Blue Active Substances	1.0	0.5	mg/l	1.00	ND	99	80-120	5	20	



Conventional Chemistry Parameters by Standard/EPA Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9060367										
Duplicate (9060367-DUP1)		Source: 19E1	046-03	Prepared &	& Analyze	ed: 06/03/	/19			
pH at 25 deg C	7.89	0.10	pH Units		7.82			0.9	20	
Reference (9060367-SRM1)				Prepared &	& Analyze	d: 06/03/	19			
pH at 25 deg C	5.80	0.10	pH Units	5.83		99	6.57-103.	4.		
Batch 9060369										
Blank (9060369-BLK1)				Prepared &	& Analyze	d: 05/31/	19			
Color	ND	1	Color Units							
Duplicate (9060369-DUP1)		Source: 19E1	059-02	Prepared &	& Analyze	d: 05/31/	19			
Color	31	1	Color Units		31			0	20	
Reference (9060369-SRM1)				Prepared &	& Analyze	d: 05/31/	19			
Color	49	1	Color Units	50.0		98	80-120			
Batch 9060370										
Blank (9060370-BLK1)				Prepared &	& Analyze	d: 05/31/	19			
Turbidity	ND	0.05	NTU							
Duplicate (9060370-DUP1)		Source: 19E1	059-02	Prepared &	& Analyze	d: 05/31/	19			
Turbidity	0.65	0.05	NTU		0.65			0	20	· · · · · · · · · · · · · · · · · · ·
Reference (9060370-SRM1)				Prepared &	& Analyze	d: 05/31/	19			
Turbidity	6.02	0.05	NTU	5.97		101	85-112			



Conventional Chemistry Parameters by Standard/EPA Methods - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 9060389										
Blank (9060389-BLK1)				Prepared &	& Analyze	ed: 06/04/	19			
Phosphorus, Total	ND	0.05	mg/l							
LCS (9060389-BS1)				Prepared &	& Analyze	ed: 06/04/	19			
Phosphorus, Total	0.53	0.05	mg/l	0.500		105	80-120			
LCS Dup (9060389-BSD1)				Prepared &	& Analyze	ed: 06/04/	19			
Phosphorus, Total	0.52	0.05	mg/l	0.500		105	80-120	0.2	20	
Duplicate (9060389-DUP1)		Source: 19E10	42-06	Prepared &	& Analyze	ed: 06/04/	19			
Phosphorus, Total	0.24	0.05	mg/l		0.24			3	20	
Matrix Spike (9060389-MS1)		Source: 19E10	42-06	Prepared &	& Analyze	ed; 06/04/	19			
Phosphorus, Total	0.77	0.05	mg/l	0.500	0.24	107	80-120			
Matrix Spike Dup (9060389-MSD1)		Source: 19E10	142-06	Prepared &	& Analyze	ed: 06/04/	19			
Phosphorus, Total	0.77	0.05	mg/l	0.500	0.24	107	80-120	0.1	20	
Batch 9060425										
Duplicate (9060425-DUP1)		Source: 19E10	59-01	Prepared &	& Analyze	ed: 05/31/	19			
Dissolved Oxygen	9.36	0.10	mg/l		9.37			0.1	20	
Duplicate (9060425-DUP2)		Source: 19E10	59-02	Prepared &	& Analyze	ed: 05/31/	19			
Dissolved Oxygen	9.23	0.10	mg/l		9.22			0.1	20	
Batch 9060609										
Blank (9060609-BLK1)				Prepared &	k Analyze	ed: 06/06/	19			
Nitrate/Nitrite as N	ND	0.05	mg/l	-						



Conventional Chemistry Parameters by Standard/EPA Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
	LUSAII	Link	- Catto	Love	Losuit		Zindia		Limit	110103
Batch 9060609										
LCS (9060609-BS1)				Prepared &	k Analyze	d: 06/06/1	19			
Nitrate/Nitrite as N	0.47	0.05	mg/l	0.500		94	90-110			-
LCS Dup (9060609-BSD1)				Prepared &	k Analyze	d: 06/06/1	9			
Nitrate/Nitrite as N	0.47	0.05	mg/l	0.500		95	90-110	0.8	20	
Duplicate (9060609-DUP1)		Source: 19F00	70-01	Prepared &	k Analyze	d: 06/06/1	19			
Nitrate/Nitrite as N	ND	0.05	mg/l		ND				20	
Matrix Spike (9060609-MS1)		Source: 19F00	70-01	Prepared &	Ł Analyze	d: 06/06/1	19			
Nitrate/Nitrite as N	0.94	0.10	mg/l	1.00	ND	94	90-110			
Matrix Spike Dup (9060609-MSD1)		Source: 19F00	70-01	Prepared &	k Analyze	d: 06/06/1	19			
Nitrate/Nitrite as N	0.94	0.10	mg/l	1.00	ND	94	90-110	0.4	20	
Batch 9060717										
Blank (9060717-BLK1)				Prepared:	06/06/19	Analyzed	: 06/07/19)		
Total Suspended Solids	ND	20.0	mg/l							
Duplicate (9060717-DUP1)		Source: 19F00	31-01	Prepared:	06/06/19	Analyzed	: 06/07/19	•		
Total Suspended Solids	ND	20.0	mg/l	7	ND				20	
Reference (9060717-SRM1)	_			Prepared:	06/06/19	Analyzed	: 06/07/19)		
Total Suspended Solids	100	20.0	mg/l	100		100	77.1-110			
Batch 9060719				·	,					
Blank (9060719-BLK1)				Prepared:	06/06/19	Analyzed	: 06/07/19)		
Total Dissolved Solids	ND	20.0	mg/l							



Conventional Chemistry Parameters by Standard/EPA Methods - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 9060719										
Duplicate (9060719-DUP1)		Source: 19F0	0031-01	Prepared:	06/06/19	Analyze	d: 06/07/1	9		
Total Dissolved Solids	527	20.0	mg/l		530			0.6	20	
Reference (9060719-SRM1)				Prepared:	06/06/19	Analyze	d: 06/07/1	9		
Total Dissolved Solids	404	20.0	mg/l	411		98	9.05-111.3	31		
Batch 9061038										
Blank (9061038-BLK1)				Prepared:	06/10/19	Analyze	d: 06/11/1	9		•
Total Kjeldahl Nitrogen	ND	0.5	mg/l							
LCS (9061038-BS1)				Prepared:	06/10/19	Analyze	d: 06/11/1	9		
Total Kjeldahl Nitrogen	0.9	0.5	mg/l	1.00		95	90-110			
LCS Dup (9061038-BSD1)				Prepared:	06/10/19	Analyze	d: 06/11/1	9		
Total Kjeldahl Nitrogen	0.9	0.5	mg/l	1.00		94	90-110	1	20	
Duplicate (9061038-DUP1)		Source: 19E1	042-03	Prepared:	06/10/19	Analyze	1: 06/11/19	•		
Total Kjeldahl Nitrogen	0.4	0.5	mg/l	-	0.4			1	20	
Matrix Spike (9061038-MS1)		Source: 19E1	1042-03	Prepared:	06/10/19	Analyze	d: 06/11/19	•		
Total Kjeldahl Nitrogen	2.0	1.0	mg/l	2.00	ND	102	90-110			
Matrix Spike Dup (9061038-MSD1)		Source: 19E1	1042-03	Prepared:	06/10/19	Analyze	1: 06/11/19	•		
Total Kjeldahl Nitrogen	2.0	1.0	mg/l	2.00	ND	100	90-110	2	20	
Batch 9061046										
Blank (9061046-BLK1)				Prepared .	& Analyz	ed: 06/10/	19			
Hardness (Total)	ND	10	mg CaCO3/	L		-				



Client Name:	Personal privacy Ex. (b) (6)
Project Name:	Testing

Conventional Chemistry Parameters by Standard/EPA Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9061046										
Duplicate (9061046-DUP1)		Source: 19E	1025-01	Prepared	& Analyze	:d: 06/10/	/19			
Hardness (Total)	ND	10	mg CaCO3/I	L	ND				20	
Batch 9061065										
Duplicate (9061065-DUP1)		Source: 19F	0050-01	Prepared	& Analyza	ed: 06/10/	/19			
Specific Conductance (EC)	4630	1.00	umhos/cm		4600			0.7	20	
Reference (9061065-SRM1)				Prepared	& Analyze	ed: 06/10/	/19			
Specific Conductance (EC)	440	1.00	umhos/cm	448		98	9.96-110.0).		



Client Name: Persona	EM	[A Log#:	19E1059
Project Name: Test	ing		

Notes and Definitions

QR-04	The RPD between the sample and sample duplicate is not valid since both results are below the reporting limit for this analyte.

QM-4X The spike recovery was outside of the QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.

HT-15 This sample was received outside of the EPA's recommended 15 minute holding time for this analysis. However, the sample was analyzed immediately upon receipt.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference



CHAIN-OF-CUSTODY RECORD

19E | 059
-EnviroMatrix Analytical, Inc. —

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disposed of 7 days after report has been finalized unless otherwise noted. All work is subject to EMA's terms and conditions.

rom date of invoice. Samples will be

Microbio (1100 c.m

(704)

Analytical Services Quotation



Bid Date: 04/12/2019 Bid Expires: 12/31/2019 Prices Expire: 12/31/2019

			1	TAT	Unit	Extended
Matrix	Parameters	Method	#	(days)	Price	Price
Waler	Metals Digestion/Prep Fee	Method	3	7	\$20.00	\$60.01
Water	Cadmium (Total)	EPA 200.8	3	7	\$15.00	\$45.00
Water	Copper (Total)	EPA 200.8	3	7	\$15.00	\$45.00
Water	tron (Total)	EPA 200.8	3	7	\$15.00	\$45.00
Water	Lead (Total)	EPA 200.8	3	7	\$15.00	\$45.00
Water	Zinc (Total)	EPA 200.8	3	7	\$15.00	\$45.00
Water	Cadmium (Diss)	EPA 200.8	3	7	\$15.00	\$45.00
Water	Chromium (Diss)	EPA 200.8	3	7	\$15.00	\$45.00
Water	Cooper (Diss)	EPA 200.8	3	7	\$15.00	\$45.00
Water	iroa (Ciss)	EPA 200.8	3	7	\$15.00	\$45.00
Water	Lead (Diss)	EPA 200.8	3	7	\$15.00	\$45.00
Water	Zinc (Diss)	EPA 200.8	3	7	\$15.00	\$45.00
Water	Ammonia as N	EPA 350.1	3	7	\$30.00	\$90.00
Water	Dissolved Oxygen	SM4500-O G	3	7	\$20.00	\$60.00
Water	Hardness	EPA 200.7	3	7	\$35.00	\$105.00
Water	MBAS	SM5540 C	3	7	\$30.00	\$90.00
Water	Nivate Nitrite as N	EPA 353.2	3	7	\$30.00	\$90.00
Water	Orthophosphale as P	SM4500 P E	3	7	\$20.00	\$60.00
Water	pH in water	SM4500-H+ B	3	7	\$20.00	\$60.00
Water	Specific Conductance (EC)	SM2510 B	3	7	\$25.00	\$75.00
Water	Total Dissolved Solids	SM2540 C	3	7	\$25.00	\$75.00
Water	Total Kjeldahl Nitrogen as N	EPA 351.2	3	7	\$55.00	\$165.00
Water	Total phosphale as P	SM4500 P B, E	3	7	\$25.00	\$75.00
Water	Total Suspended Solids	SM2540 D	3	7	\$25.00	\$75.00
Water	Turbidity	SM2130 B	3	7	\$20.00	\$60.00
Water	Collions, Total & Fecal	SM 9221 B, E	3	7	\$35.00	\$105.00
Water	Enterococcas	SM 9230 A, B	3	7	\$35.00	\$165.00 \$1,905.00

90199

City of Poway Dry Weather Major MS4 Outfall Monitoring Field Datasheet

Visit Type:	√isual □ Follow	-Up Sta	tion Class:	□ Field □	Removed,_						
Site ID:				,	Latitude:	33,999	11		Outfa	all Size:	
Location:						-116.		6			
N-1	Kelly					05.21					
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(select only one) Atmospheric	Conditions					JICCK	Ona	iiiici			
	□ Clear	₽ (Partl	y Cloudy	□ Overcas	t □ Fog	58	OF				
Last Rain	> 72 hours	□ < 72	hours but ≤	0.1"		•	•				
Flow	,										
Water Flow	∑ Flow	ing	□ Ponded	□ Dry				Flow reach	nes receiv	ing water?: XYes	□ No
Flow Rate:		-	cfs Fill in flo	w rate calcula	tion supportin	g informatio	n beloi			•	Unknown
F	lowing Pipe			Filling	a Bottle or	Known Vo	lume		Ve	locity Area Method (Le	af Float)
Diameter		ft	Volu		7-		~	391	Width	ir	1
Depth		ft	Tim	e to Fill	17.6	3	sec		Depth	ir)
Velocity		ft/sec							Velocity		/sec
	= area(ft²)*velocity(f ter² (See tabulated			er/sec = 15.85 g _F	om				Use correct	pm) = width(ft)*depth(ft)*veloc ion factor of 0.5 to 0.9 dependi	ity(ft/sec)^448.8 ing on
	•	, ,	,						conveyance	surface roughness.	
Observations											
Odor	,	Sewage		□ Sulfides		□ Petrole	um	☐ Manure		□ Other	□ na (dry)
Color	•	Yellow		□ Brown		☐ White		□ Gray		☐ Other	☐ na (dry)
Clarity		Cloudy (> 4" vis)	☐ Murky (*					□ Other	☐ na (dry)
Floatables		Trash		☐ Bubbles		☐ Foam		☐ Oily Shee		2 Other algal	☐ na (dry)
Deposits			Particulates	☐ Fine Pa		☐ Stains		☐ Oily Depo		□ Other	
Structural Con (select only one)	idition []	Normal	□ Dam	aged ⊔ S	cour Pond	□ Erosion		□ Blockage		☐ Other	
Trash Assess	sment										
Rating		ı (>400 p	ieces)	☐ Medium (5	0 to 400 pie	eces)	Low ((<50 pieces)	None		
Evidence of III	-	, .		n comments)	□ No	Potential	Threa	at To: ☐ Hun	nan Health	n □ Aquatic Health	
Comments:											
Source Identi	fication and I	Eliminat	ion								
Evidence of Ol	bvious IC/ID: 1	□ Odor [Color □ C	larity Floa	tables □ Hi	gh Flow □	Non-	Standard Co	nnection [☐ Other	🗆 No
Flow Source:	Groundwater	□ Seep	age 🗆 Irrig	ation Runoff	☐ Vehicle \	Washing [Wet	Cleaning [Construc	ction 🗆 na (dry)	
	□ Pool or Spa	a □ Wate	r Line Break	□ NPDES	Permitted D	ischarge [Othe	er		Unable to Determine to Deter	nine
Basis for Sour	ce Identificatio	n: 🗹 Obs	served Disch	ıarge 🛭 İndir	ect Evidenc	e ⊅ Histor	ical D	ata 🗆 Other	· ·	🗆 na (Not Determ	nined/Dry)
If Identified, W	as Source Elin	ninated?	(If yes, desc	cribe in notes	below)	Yes AN	0 🗆	na (drv)			
Source ID/Elim			(,,					()			
	The state of the s										
										····	
Field Screenin	g Samples Col	lected?	Yes	□ No		Analy	tical	Lab Sample	s Collecte	ed? X⊓Yes □ No	
	1 .					1		_ab cample			
Water Temp ((c) 17°	0	NH3-N (mg	3/L)		NO3 (mg	L)			Ortho-PO4 (mg/L)	
pH (pH units)			Turb. (NTU	J)		NO3-N (n	ng/L)			Ortho-PO4 -P (mg/L)	
Cond. (mS/cm	1)		MBAS (mg	/L)							

City of Poway Dry Weather Major MS4 Outfall Monitoring Field Datasheet

Visit Type: XVisua	al ≰Ó Follow-Up St	ation Class: 🗆 Field	□ Removed,					
Site ID:			Latitude:	33.003)	Outfa	all Size: 48"	
Location: War	ren Grossing		Longitude	: -117.0	2057		, -	
	ay, CA		HSA:	90521				
	0 -		Observer		ly Col	e Hun	mon, Josep	6 Carroll
Date: May 30	,2019 Tir	ne: 2:40 p.m.		_	9			
Conveyance (select only one)	☐ Outlet ☐ N	lanhole Concrete		•	arthen annel	□ Other		
Atmospheric Cor	ditions							
Weather □ C	ear ☐ Part	y Cloudy	ıst □ Fog	1				
Last Rain X>	72 hours □ < 72	hours but ≤ 0.1"						
Flow								
Water Flow	Flowing	☐ Ponded ☐ Dry			Flow reach	nes receiv	ing water?: \\Ye	s 🗆 No
Flow Rate:	57 XJgpm □	cfs Fill in flow rate calcul	ation supporti	ng information belo			^	□ Unknown
Flowi	ng Pipe	Filling	a Bottle or	Known Volume		Ve	locity Area Method	
Diameter	n	Volume	2	, and		Width		in
Depth	ft	Time to Fill	14	sec		Depth		in
Velocity	ft/sec			-		Velocity		ft/sec
	ı(ft²)*velocity(ft/sec)*448. See tabulated values (Ta		gpm			Use correct	pm) = width(ft)*depth(ft)* ion factor of 0.5 to 0.9 de surface roughness.	
Observations								
Odor 💢	None Sewage	☐ Sulfide	es	□ Petroleum	☐ Manure		□ Other	na (dry)
	None XYellow	□ Brown		□ White	□ Gray		□ Other	🗆 na (dry)
	Clear Cloudy		(< 4" vis)	_			□ Other	☐ na (dry)
	None □ Trash	☐ Bubble		□Foam	☐ Oily Shee		Other	🗆 na (dry)
•			articulates	☐ Stains	☐ Oily Depo		-StOther	
Structural Condition (select only one)	n 🗆 Normal	☐ Damaged ☐ S	Scour Pond	☐ Erosion	□ Blockage	!	□ Other	
Trash Assessme	nt							
Rating	☐ High (>400 p	ieces) 🗆 Medium	(50 to 400 pie	eces) 🗆 Low	(<50 pieces)	№ None		
Evidence of lilegal	Dumping: X Yes	(describe in comments) 🗆 No	Potential Thre			Aquatic Health	l .
Comments: _ \	dromodific	Aron due to	abendo		blocke	no fre	m uncheum	• /• •
	deposits one	bilited down	sheam				7-7-	
Source Identifica	tion and Eliminat	ion						
Evidence of Obvior	us IC/ID: Odor	Color Clarity Flo	atables DH	igh Flow 🗆 Non-	Standard Cor	nnection [Other	□ No
		page Irrigation Runol						
í al	Pool or Spa 🗆 Wate	er Line Break II NPDES	S Permitted D	ischarge & Oth	er <u>500</u>	ines	Unable to De	etermine
		served Discharge 🗆 Ind						
If Identified, Was S	ource Eliminated?	(If yes, describe in note	s below) 🛭	Yes ÇXNo □	na (dry)			
Source ID/Eliminat	ion Notes:							
				-				
Field Screening Sa	mples Collected?	Yes X No		Analytical	Lab Sample:	s Collecte	d? Yes X	lo see atade
Water Temp (°C)	2300	NH3-N (mg/L)		NO3 (mg/L)			Ortho-PO4 (mg/L)	
pH (pH units)		Turb. (NTU)		NO3-N (mg/L)		(Ortho-PO4 -P (mg/L)
Cond. (mS/cm)		MBAS (mg/L)						

Visit Type: X Visual	SyFollow-Up Sta	ation Class: 🗆 Fie	eld 🗆 Removed,_		,			
Site ID:			Latitude:	33,0030		Outfall Size	: 48 ¹¹	
Location:		_	Longitude	-117.605	}			**************************************
War	ren Cros	3725		905.21				
Pow	ay, CA		Observer(s)(6)	ile Harms	n Joseph	Carroll
Date: May30		ne: 7:25 p. n	n.) ,		<i>j,</i> ·	
Conveyance (select only one)	Outlet DM	lanhole □ Concr		(Natural □ Ear Greek Chan		☐ Other		
Atmospheric Cond	ditions							
Weather		ly Cloudy 🗆 Ov	vercast □ Fog	63°F				
Last Rain Ø>7	2 hours □ < 72	hours but ≤ 0.1"		65				
Flow							•	
Water Flow	⊠ Flowing	□ Ponded □	Dry		Flow reach	es receiving w	ater?: ¥ú Yes	□ No
Flow Rate: 6	. •	cfs Fill in flow rate of	•				/	Unknown
Flowin	, •••		illing a Bottle or		-,.		Area Method (L	
Diameter	n h	Volume	2		391	Width		in
Depth	ft.	Time to Fill	17			Depth		in
Velocity	ft/sec			-		Velocity		ft/sec
Flow rate(gpm) = area(5.85 gpm				vidth(ft)*depth(ft)*velo	
Area = Ta*diameter² (Se	e tabulated values (Ta,) cnan)				conveyance surface	or of 0.5 to 0.9 depend roughness.	aing on
Observations						•	Ū	
Odor X N	one Sewage	. □ Sı	ulfides	☐ Petroleum (☐ Manure	[☐ Other	□ na (dry)
Color DN		□ Br		☐ White	Gray		Other	□ na (dry)
Clarity X C			urky (< 4" vis)		,		Other	□ na (dry)
Floatables X N	•		ubbles	☐ Foam	☐ Oily Shee	n [☐ Other	□ na (dry)
Deposits N	one Coarse	Particulates 🛚 🗆 Fi	ne Particulates	☐ Stains	Oily Depo	osits)	Other	
Structural Condition	□ Normal	□ Damaged	□ Scour Pond	☐ Erosion (☐ Blockage		3 Other	
(select only one) Trash Assessmen	t							
Rating	☐ High (>400 p	ieces)	ium (50 to 400 pie	ces) 🗆 Low (<	50 pieces)	None		
Evidence of Illegal D	, () ,	,		Potential Threat		•	Aquatic Health	
		ation due		bandone d		/ blocker	· •	upstream
illeral wash		mobilize				/		
Source Identificati				-				
Evidence of Obvious	s IC/ID: Odor [Color Clarity	Floatables High	h Flow 🗆 Non-St	andard Cor	nection Othe	r	□ No
Flow Source: Gro		•		-				
O Po	ool or Spa ☐ Wate	er Line Break NF	PDES Permitted Di	ischarge Other			Unable to Deter	mine
Basis for Source Ide					•			
If Identified, Was So		•					•	
Source ID/Elimination		()	,		- (),			
COUNT IN LIMITING								
				·				
Field Screening San	ples Collected?	χΥes Πο		Analytical La	ab Samples	Collected?	Yes No	centrada
Water Temp (°C)	18°C	NH3-N (mg/L)		NO3 (mg/L)			PO4 (mg/L)	
pH (pH units)		Turb. (NTU)		NO3-N (mg/L)		Ortho-l	PO4 -P (mg/L)	
Cond. (mS/cm)		MBAS (mg/L)						

Visit Type: / Visual	SFollow-Up St	ation Class:	d □ Removed,		_			
Site ID:				33.0030		Outfall S	Size: 49"	
Location:	men Cross	`re	Longitude	:-117.005	}		,,,	
		5	HSA: 9	05.21				
Pow	ay, CA		Observer(G	6 Harms	n Jards	Carrol)
Date: May31,	2019 Tin	ne: 7:20 aim	1					
Conveyance (select only one)	Outlet N	lanhole 🗆 Concre			arthen nnel	□ Other		
Atmospheric Cond	ditions							
Weather □ Cle		y Cloudy XOve	rcast Fog	590F	•			
	2 hours □ < 72	hours but ≤ 0.1"		5/1				
Flow					****	-		
Water Flow	Flowing	☐ Ponded ☐ ☐	-			-	water?: ☐ Yes	□ No
Flow Rate: 13.6	2′'_Xarg pm □	cfs Fill in flow rate ca		-	v if applicable).		□ Unknown
	ıg Pipe		ling a Bottle or	Known Volume			ity Area Method	
Diameter	ft	Volume	20		sal	Width		in
Depth Velocity	ft ft/sec	Time to Fill	8.8	sec		Depth		ft/sec
Flow rate(gpm) = area(i			.85 apm			Velocity Flow rate(gpm)	= width(ft)*depth(ft)*v	
Area = Ta*diameter² (Se							actor of 0.5 to 0.9 dep	
Observations	50	50.8	T.1	G D-tl				
Odor AN	•			☐ Petroleum	☐ Manure		☐ Other	🗋 na (dry)
Color No	`	□ Bro		□ White	☐ Gray		☐ Other	□ na (dry)
Clarity (2) Clarity Floatables	•	>4°vis) ⊔ Mur ∏ Bub	rky (< 4" vis)	□ Foam	□ Oilu Chae	•	□ Other	□ na (dry)
Floatables No.			e Particulates	☐ Stains	☐ Oily Shee ☐ Oily Depo		☐ Other > Other	🗌 na (dry)
Structural Condition			☐ Scour Pond	☐ Erosion	☐ Blockage		Other	
(select only one)		_ carragea		_ _	_ Dicomago			
Trash Assessmen								
Rating	☐ High (>400 p	•	m (50 to 400 pie		<50 pieces)	□ None		
Evidence of Illegal E Comments:	nd Pmodific	describe in comme mobilized	· abund		P/Hock	_	Aquatic Health Pafrea	m illepel
Source Identificati	on and Eliminat	ion						
Evidence of Obvious	s IC/ID: Odor	Color Clarity	Floatables □ Hi	gh Flow □ Non-S	Standard Cor	nnection O	ther	□ No
	ool or Spa 🛘 Wate	r Line Break DNPC	ES Permitted D	ischarge POthe	<u> </u>	£ 2	☐ Unable to Det	
Basis for Source Ide	entification: 💆 Obs	served Discharge	Indirect Evidenc	e 🛘 Historical D	ata □ Other		🗆 na (Not De	termined/Dry)
If Identified, Was So	_							
Source ID/Elimination								
F. 116	- loo 0 - 11 - 120	No Man and M		A		. 0-11	1 27 V 28 ***	Con Alto
Field Screening San	npies Collected?	X Yes No			ab Sample:	s Collected?		see atted
Water Temp (°C)	17°C	NH3-N (mg/L)		NO3 (mg/L)		Orth	io-PO4 (mg/L)	
pH (pH units)		Turb. (NTU)		NO3-N (mg/L)		Orth	o-PO4 -P (mg/L)	
Cond. (mS/cm)		MBAS (mg/L)						

Visit Type: 🔎 Visua	Follow-Up St	ation Class: Fie	eld □ Removed,					
Site ID:			Latitude:	33, 60	30	Outfall Size:	48"	
Location:	Con có		Longitude	:-IA.0	057		-10	
Wall	ren Crossi	• >		705.21		7		
Pow	ay, CA		Observer(Personal orivacy F	Éx. (b)(6)	Gle Harms	~ To	-1 Caml
Date: May 3		me: 11:00 a				_2cc /; M /·/-	שנינים נח	ph Cuirby
Conveyance (select only one)	□ Outlet □ M	Manhole Concre	rere Linannei /		3 Earthen Channel	□ Other		
Atmospheric Con	ditions							
Weather □ Cle	ear A Part	tly Cloudy Over	vercast	610				
Last Rain ♣₹>7	•	2 hours but ≤ 0.1"		660	7			
Flow								
Water Flow	*X*Flowing	□ Ponded □ I	Dry		Flow reach	es receiving water	r?: 1XYes	□No
Flow Rate:\3	^	cfs Fill in flow rate ca	•	ng information be		_	•)	□ Unknown
Flowir	ng Pipe		illing a Bottle or	-			ea Method (L	
Diameter	ig i ipc	Volume	7		m cal	Width	T	in
Depth	ft	Time to Fill	1 9.2		sec	Depth		in
Velocity	ft/sec					Velocity		fVsec
Flow rate(gpm) = area(, , , , , , , , , , , , , , , , , , , ,		5.85 gpm	•		Flow rate(gpm) = width		
Area = Ta*diameter² (So	e tabulated values (i a) chart)				Use correction factor of conveyance surface rou		ding on
Observations						women's and	gimer.	
OdorN	one Sewage	e 🗆 Su	ulfides	☐ Petroleum	□ Manure	□0	Other	□ na (dry)
Color DN	_	□ Bro		☐ White	☐ Gray		Other	☐ na (dry)
Clarity C	<i>J</i> •		urky (< 4" vis)	tur	,		Other	□ na (dry)
Floatables KN			ubbles	□ Foam	□ Oily Sheer		Other	☐ na (dry)
Deposits 🗆 N			ne Particulates	□ Stains	☐ Oily Depos			
Structural Condition		□ Damaged	☐ Scour Pond	□ Erosion	□ Blockage	60		
(select only one)								
Trash Assessmen		··\ □ Modi	' (EQ to 400 pir	\	/ 1E0 mineral	5 st		
Rating	☐ High (>400 p	,	ium (50 to 400 pie	-	w (<50 pieces)	• •	· · · · · · · · · · · · · · · · · · ·	
Evidence of Illegal I					reat To: 🗆 Huma	. / ~	atic Health	-1
Comments: Hyd			to about		4.11/6	lockage to	vom up.	Mean
Source Identificati		tion	12ed and	Juean				
			Sin stables C. Ui	- Floor D No.	- Ot-redead Con	outles 5 Other		- Al-
Evidence of Obviou	~	`		_				🗆 No
Flow Source: Gro							na (dry)	. •
		er Line Break II NP				•	nable to Deter	
Basis for Source Ide		-			_		□ na (Not Deter	mined/Dry)
If Identified, Was So		(If yes, describe in i	notes below) u	Yes XINO	🗆 na (dry)			
Source ID/Elimination	n Notes:							
Field Screening San	ples Collected?	Yes No		Analytica	al Lab Samples	Collected? > Ye	es No	
Water Temp (°C)	19°C	NH3-N (mg/L)		NO3 (mg/L)		Ortho-PO4	4 (mg/L)	
pH (pH units)		Turb. (NTU)		NO3-N (mg/l	4)	Ortho-PO	4 -P (mg/L)	
Cond. (mS/cm)		MBAS (mg/L)						





Analytical, Inc.

15 June 2019



EMA Log #: 19F0112

Project Name: Testing

Project Desc./#: June 4, 2019

Enclosed are the results of analyses for samples received by the laboratory on 06/04/19 12:40. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that this data is in compliance both technically and for completeness.

Dan Verdon

Laboratory Director

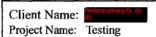
CA ELAP Certification #: 2564

Client Name:	Personal privacy Ex. (b) (6)
Project Name:	Testing

ANALYTICAL REPORT FOR SAMPLES

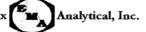
Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N-Kelly	19F0112-01	Drinking Water	06/04/19 10:30	06/04/19 12:40
Warren Crossing	19F0112-02	Drinking Water	06/04/19 11:25	06/04/19 12:40





Total Metals by EPA 200 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
N-Kelly (19F0112-01) Drinking Water	Sampled: 00	5/04/19 10:30	Received	: 06/04/19 1	2:40				
Iron	0.323	0.050	mg/l	1	9061280	06/12/19	06/13/19	EPA 200.8	
Manganese	0.026	0.005	**	"	**		n	•	
Warren Crossing (19F0112-02) Drinkin	g Water Sa	mpled: 06/04/	19 11:25	Received: (06/04/19 1	2:40			
Iron	ND	0.050	mg/l	1	9061280	06/12/19	06/13/19	EPA 200.8	
Manganese	0.006	0.005	"	"		,,	**	,	





Metals (Dissolved) by EPA 200 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
N-Kelly (19F0112-01) Drinking Water	Sampled: 06	6/04/19 10:30	Received	: 06/04/19 1	12:40				
Iron	0.245	0.050	mg/l	1	9061155	06/11/19	06/11/19	EPA 200.8	
Zinc	ND	0.020	н			"	**	*	
Warren Crossing (19F0112-02) Drinking	g Water Sa	mpled: 06/04/	19 11:25	Received:	06/04/19 1	2:40			
Iron	ND	0.050	mg/l	1	9061155	06/11/19	06/11/19	EPA 200.8	
Zinc	0.023	0.020	"	u	#	11	n	"	





Conventional Chemistry Parameters by Standard/EPA Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
N-Kelly (19F0112-01) Drinking Water	Sampled: 06	/04/19 10:30	Received:	06/04/19 1	12:40				
Ammonia as N	ND	0.10	mg/l	1	9061171	06/13/19	06/13/19	EPA 350.1	
Color	26	1	Color Units	"	9060618	06/05/19	06/05/19	SM2120 B	
Specific Conductance (EC)	452	1.00	umhos/cm	Ħ	9061065	06/10/19	06/10/19	SM2510 B	
Hardness (Total)	52	10	mg CaCO3/L		9061161	06/11/19	06/12/19	EPA 200.7	
Methylene Blue Active Substances	ND	0.5	mg/l	**	9060628	06/05/19	06/05/19	SM5540 C	
Nitrate/Nitrite as N	0.07	0.05		"	9060826	06/08/19	06/08/19	EPA 353.2	
Total Kjeldahl Nitrogen	ND	0.5	"	**	9061157	06/11/19	06/12/19	EPA 351.2	
Dissolved Oxygen	8.91	0.10	*	"	9060608	06/04/19	06/04/19	SM4500-O G	HT-15
pH at 25 deg C	6.94	0.10	pH Units	u	9060562	06/04/19	06/04/19	SM4500-H+ B	HT-15
Orthophosphate as P	0.11	0.05	mg/l	n	9060390	06/04/19	06/04/19	SM4500 PE	
Phosphorus, Total	0.21	0.05	**	•	9061042	06/07/19	06/07/19	SM4500 PB, E	
Total Dissolved Solids	339	20.0	*	**	9061053	06/07/19	06/10/19	SM2540 C	
Total Suspended Solids	ND	20.0		"	9061154	06/10/19	06/11/19	SM2540 D	
Sulfate as SO4	19.6	5.0	*	"	9060432	06/04/19	06/04/19	SM4500 SO4 E	
Turbidity	3.40	0.05	NTU		9060563	06/04/19	06/04/19	SM2130 B	
Warren Crossing (19F0112-02) Drink	ing Water Sa	mpled: 06/04	/19 11:25 R	eceived: (06/04/19 1	2:40			
Ammonia as N	ND	0.10	mg/l	1	9061171	06/13/19	06/13/19	EPA 350.1	
Color	26	1	Color Units	•	9060618	06/05/19	06/05/19	SM2120 B	
Specific Conductance (EC)	899	1.00	umhos/cm	10	9061065	06/10/19	06/10/19	SM2510 B	
Hardness (Total)	218	10	mg CaCO3/L	•	9061161	06/11/19	06/12/19	EPA 200.7	
Methylene Blue Active Substances	ND	0.5	mg/l	*	9060628	06/05/19	06/05/19	SM5540 C	
Nitrate/Nitrite as N	ND	0.05		"	9060826	06/08/19	06/08/19	EPA 353.2	
Total Kjeldahl Nitrogen	ND	0.5	*	"	9061157	06/11/19	06/12/19	EPA 351.2	
Dissolved Oxygen	9.21	0.10	"	"	9060608	06/04/19	06/04/19	SM4500-O G	HT-15
pH at 25 deg C	7.89	0.10	pH Units	"	9060562	06/04/19	06/04/19	SM4500-H+ B	HT-15
Orthophosphate as P	0.10	0.05	mg/l	н	9060390	06/04/19	06/04/19	SM4500 PE	
Phosphorus, Total	0.18	0.05			9061042	06/07/19	06/07/19	SM4500 PB, E	
Total Dissolved Solids	587	20.0			9061053	06/07/19	06/10/19	SM2540 C	
		20.0	*	**	9061154	06/10/19	06/11/19	SM2540 D	
Total Suspended Solids	ND	20.0							
Total Suspended Solids Sulfate as SO4	128	50.0		10	9060432	06/04/19	06/04/19	SM4500 SO4 E	



Client Name: Project Name: Testing

EMA Log #: 19F0112

Microbiological Parameters by Standard Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
N-Kelly (19F0112-01) Drinking Water	Sampled: 06	/04/19 10:30	Received:	06/04/19	12:40				
Total Coliforms	220	2	MPN/100 ml	1	9060435	06/04/19	06/08/19	SM 9221 B, E	
Fecal Coliforms	ND	2	**	**	n	"	06/07/19	"	
Enterococcus	240	2	**	**	9060436	"	06/08/19	SM 9230 A, B	
Warren Crossing (19F0112-02) Drinkin	g Water Sa	mpled: 06/04	/19 11:25 R	eceived:	06/04/19 1	2:40			
Total Coliforms	900	2	MPN/100 ml	I	9060435	06/04/19	06/08/19	SM 9221 B, E	
Fecal Coliforms	22	2	"		**	*	06/07/19	n	
Enterococcus	240	2	"	97	9060436	"	06/08/19	SM 9230 A, B	



Total Metals by EPA 200 Series Methods - Quality Control

1		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 9061280										
Blank (9061280-BLK1)				Prepared	06/12/19	Analyzed	: 06/13/1	9		
Iron	ND	0.050	mg/l							
Manganese	ND	0.005	*							
LCS (9061280-BS1)				Prepared	06/12/19	Analyzed	: 06/13/1	9		
Iron	0.101	0.050	mg/l	0.100		101	85-115			
Manganese	0.110	0.005		0.100		110	85-115			
LCS Dup (9061280-BSD1)				Prepared	06/12/19	Analyzed	: 06/13/19	9		
Manganese	0.111	0.005	mg/l	0.100		111	85-115	0.4	20	
Iron	0.098	0.050		0.100		98	85-115	3	20	
Duplicate (9061280-DUP1)		Source: 19E0	779-02RE1	Prepared	06/12/19	Analyzed	: 06/13/19	•		
Manganese	0.011	0.005	mg/l		0.010			14	20	
Iron	0.026	0.050	•		0.025			6	20	
Matrix Spike (9061280-MS1)		Source: 19E0	779-02RE1	Prepared	06/12/19	Analyzed	: 06/13/19	9		
Iron	0.128	0.050	mg/l	0.100	0.025	104	70-130			
Manganese	0.116	0.005	•	0.100	0.010	107	70-130			
Matrix Spike Dup (9061280-MSD1)		Source: 19E0	779-02RE1	Prepared	06/12/19	Analyzed	: 06/13/19	•		
Manganese	0.116	0.005	mg/l	0.100	0.010	106	70-130	0.3	20	
Iron	0.123	0.050	*	0.100	0.025	98	70-130	4	20	





Metals (Dissolved) by EPA 200 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9061155										
Blank (9061155-BLK1)				Prepared	& Analyze	ed: 06/11/	19			
Zinc	ND	0.020	mg/l		,4	, , , , , , , , , , , , , , , , , , , ,				
Iron	ND	0.050	н							
LCS (9061155-BS1)				Prepared a	& Analyze	ed: 06/11/	19			
Iron	0.100	0.050	mg/l	0.100		100	85-115			
Zinc	0.101	0.020	"	0.100		101	85-115			
LCS Dup (9061155-BSD1)				Prepared a	& Analyze	ed: 06/11/2	19			
Iron	0.100	0.050	mg/l	0.100		100	85-115	0.6	20	
Zinc	0.101	0.020	"	0.100		101	85-115	0.3	20	
Duplicate (9061155-DUP1)		Source: 19F01	12-01	Prepared a	& Analyze	d: 06/11/	19			
Iron	0.236	0.050	mg/l		0.245			3	20	
Zinc	0.001	0.020	н		0.001			3	20	
Matrix Spike (9061155-MS1)		Source: 19F01	12-01	Prepared a	& Analyze	ed: 06/11/	19			
Zinc	0.098	0.020	mg/l	0.100	0.001	97	70-130			
Iron	0.336	0.050		0.100	0.245	91	70-130			
Matrix Spike Dup (9061155-MSD1)		Source: 19F01	12-01	Prepared of	& Analyze	ed: 06/11/	19			
Iron	0.341	0.050	mg/i	0.100	0.245	96	70-130	2	20	
Zinc	0.099	0.020	10	0.100	0.001	97	70-130	0.3	20	



Conventional Chemistry Parameters by Standard/EPA Methods - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 9060390										
Blank (9060390-BLK1)				Prepared a	& Analyze	ed: 06/04/	19			
Orthophosphate as P	ND	0.05	mg/l							
LCS (9060390-BS1)				Prepared a	& Analyza	ed: 06/04/	19			
Orthophosphate as P	0.50	0.05	mg/l	0.500		99	80-120			
LCS Dup (9060390-BSD1)				Prepared of	& Analyze	ed: 06/04/	19			
Orthophosphate as P	0.49	0.05	mg/l	0.500		98	80-120	1	20	
Duplicate (9060390-DUP1)		Source: 19F01	12-01	Prepared a	& Analyze	ed: 06/04/	19			
Orthophosphate as P	0.12	0.05	mg/l		0.11			14	20	
Matrix Spike (9060390-MS1)		Source: 19F01	12-01	Prepared & Analyzed: 06/04/19						
Orthophosphate as P	0.61	0.05	mg/l	0.500	0.11	99	80-120			
Matrix Spike Dup (9060390-MSD1)		Source: 19F01	12-01	Prepared of	& Analyze	ed: 06/04/	19			
Orthophosphate as P	0.60	0.05	mg/l	0.500	0.11	98	80-120	1	20	
Batch 9060432										
Blank (9060432-BLK1)				Prepared a	& Analyze	ed: 06/04/	19			
Sulfate as SO4	ND	5.0	mg/l							
LCS (9060432-BS1)				Prepared & Analyzed: 06/04/19						
Sulfate as SO4	9.1	5.0	mg/l	10.0		91	80-120			
LCS Dup (9060432-BSD1)				Prepared &	& Analyze	ed: 06/04/	19			
Sulfate as SO4	9.6	5.0	mg/l	10.0		96	80-120	6	20	



Conventional Chemistry Parameters by Standard/EPA Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9060432										
Duplicate (9060432-DUP1)		Source: 19E0	849-01	Prepared of	& Analyze	d: 06/04	/19			
Sulfate as SO4	10.6	5.0	mg/l		10.5			0.6	20	,,,,,,
Matrix Spike (9060432-MS1)		Source: 19E0	849-01	Prepared	& Analyze	d: 06/04	/19			
Sulfate as SO4	19.7	5.0	mg/l	10.0	10.5	92	80-120			
Matrix Spike Dup (9060432-MSD1)		Source: 19E0	849-01	Prepared	& Analyze	d: 06/04	/19			
Sulfate as SO4	19.6	5.0	mg/l	10.0	10.5	91	80-120	0.3	20	
Batch 9060562										
Duplicate (9060562-DUP1)		Source: 19F0	076-02	Prepared a	& Analyze	d: 06/04	/19			
pH at 25 deg C	10.2	0.10	pH Units		10.2			0.3	20	- Indiana - Indi
Reference (9060562-SRM1)				Prepared	& Analyze	d: 06/04	/19			
pH at 25 deg C	5.82	0.10	pH Units	5.83		100	6.57-103.4			
Batch 9060563										
Blank (9060563-BLK1)				Prepared of	& Analyze	d: 06/04	/19			
Turbidity	ND	0.05	NTU							
Duplicate (9060563-DUP1)		Source: 19F0	050-01	Prepared of	& Analyze	d: 06/04	/19			
Turbidity	0.35	0.05	NTU		0.35			0	20	
Reference (9060563-SRM1)				Prepared & Analyzed: 06/04/19						
Turbidity	5.84	0.05	NTU	5.97		98	85-112			



Conventional Chemistry Parameters by Standard/EPA Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9060608										
Duplicate (9060608-DUP1)		Source: 19F0	112-01	Prepared &	& Analyza	ed: 06/04/	19			
Dissolved Oxygen	8.88	0.10	mg/l		8.91			0.3	20	
Duplicate (9060608-DUP2)		Source: 19F6	112-02	Prepared &	& Analyze	ed: 06/04/	19			
Dissolved Oxygen	9.17	0.10	mg/l		9.21			0.4	20	
Batch 9060618										
Blank (9060618-BLK1)				Prepared &	& Analyze	ed: 06/05/	19			
Color	ND	1	Color Units							
Duplicate (9060618-DUP1)		Source: 19F0113-01 F		Prepared &	& Analyze	ed: 06/05/	19			
Color	ND	1	Color Units		ND				20	
Reference (9060618-SRM1)				Prepared &	& Analyze	ed: 06/05/1	19			
Color	50	I	Color Units	50.0		100	80-120		-	
Batch 9060628										
Blank (9060628-BLK1)				Prepared &	k Analyze	d: 06/05/1	19			
Methylene Blue Active Substances	ND	0.5	mg/l	-						,,,
LCS (9060628-BS1)				Prepared &	& Analyze	ed: 06/05/1	19			
Methylene Blue Active Substances	0.9	0.5	mg/l	1.00		88	80-120			
LCS Dup (9060628-BSD1)				Prepared &	& Analyze	ed: 06/05/1	19			
Methylene Blue Active Substances	0.9	0.5	mg/l	1.00		88	80-120	0.5	20	



Conventional Chemistry Parameters by Standard/EPA Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9060628										
Duplicate (9060628-DUP1)	, , , , ,	Source: 19F02	12-01	Prepared &	& Analyze	ed: 06/05/	19			
Methylene Blue Active Substances	ND	0.5	mg/l	*	0.1				20	
Matrix Spike (9060628-MS1)		Source: 19F02	212-01	Prepared &	& Analyze	ed: 06/05/	19			
Methylene Blue Active Substances	0.9	0.5	mg/l	1.00	0.1	84	80-120			
Matrix Spike Dup (9060628-MSD1)		Source: 19F02	212-01	Prepared a	& Analyze	ed: 06/05/	19			
Methylene Blue Active Substances	1.0	0.5	mg/l	1.00	0.1	85	80-120	0.3	20	
Batch 9060826										
Blank (9060826-BLK1)				Prepared &	& Analyze	ed: 06/08/	19			,
Nitrate/Nitrite as N	ND	0.05	mg/l							
LCS (9060826-BS1)				Prepared &	& Analyze	ed: 06/08/	19			
Nitrate/Nitrite as N	0.48	0.05	mg/l	0.500		96	90-110			
LCS Dup (9060826-BSD1)				Prepared &	& Analyze	ed: 06/08/	19			
Nitrate/Nitrite as N	0.48	0.05	mg/l	0.500		96	90-110	0.6	20	
Duplicate (9060826-DUP1)		Source: 19F00	71-40	Prepared &	& Analyze	ed: 06/08/	19			
Nitrate/Nitrite as N	0.02	0.10	mg/l		0.02			0	20	
Matrix Spike (9060826-MS1)		Source: 19F00	71-40	Prepared &	& Analyze	ed: 06/08/	19			
Nitrate/Nitrite as N	0.98	0.10	mg/l	1.00	0.02	96	90-110			
Matrix Spike Dup (9060826-MSD1)		Source: 19F00	71-40	Prepared &	& Analyze	ed: 06/08/1	19			
Nitrate/Nitrite as N	0.97	0.10	mg/l	1.00	0.02	95	90-110	0.4	20	



Conventional Chemistry Parameters by Standard/EPA Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9061042										
Blank (9061042-BLK1)				Prepared a	& Analyzo	d: 06/07/	19			
Phosphorus, Total	ND	0.05	mg/l							
LCS (9061042-BS1)				Prepared & Analyzed: 06/07/19						
Phosphorus, Total	0.45	0.05	mg/l	0.500		90	80-120			
LCS Dup (9061042-BSD1)				Prepared & Analyzed: 06/07/19						
Phosphorus, Total	0.46	0.05	mg/l	0.500		92	80-120	2	20	
Duplicate (9061042-DUP1)		Source: 19F01	57-01	Prepared a	& Analyze	d: 06/07/	19			
Phosphorus, Total	0.17	0.05	mg/l		0.18	,		7	20	
Duplicate (9061042-DUP2)		Source: 19F00	71-16	Prepared & Analyzed: 06/07/19						
Phosphorus, Total	0.18	0.05	mg/l		0.18			0.6	20	
Matrix Spike (9061042-MS1)		Source: 19F01	57-01	Prepared of	& Analyze	d: 06/07/	19			
Phosphorus, Total	0.66	0.05	mg/l	0.500	0.18	95	80-120			
Matrix Spike (9061042-MS2)		Source: 19F00	71-16	Prepared 6	& Analyze	d: 06/07/	19			
Phosphorus, Total	0.64	0.05	mg/l	0.500	0.18	93	80-120			
Matrix Spike Dup (9061042-MSD1)		Source: 19F01	57-01	Prepared of	& Analyze	d: 06/07/1	19			
Phosphorus, Total	0.66	0.05	mg/l	0.500	0.18	95	80-120	0.2	20	
Matrix Spike Dup (9061042-MSD2)		Source: 19F00	71-16	Prepared a	& Analyze	d: 06/07/1	19			
Phosphorus, Total	0.64	0.05	mg/l	0.500	0.18	91	80-120	0.9	20	
Batch 9061053										
Blank (9061053-BLK1)				Prepared:	06/07/19	Analyzed	: 06/10/19			
Total Dissolved Solids	ND	20.0	mg/l							



Conventional Chemistry Parameters by Standard/EPA Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9061053										
Duplicate (9061053-DUP1)		Source: 19F0	081-01	Prepared:	06/07/19	Analyze	d: 06/10/1	9		
Total Dissolved Solids	862	20.0	mg/l		854			0.9	20	
Reference (9061053-SRM1)				Prepared:	06/07/19	Analyze	d: 06/10/1	9		
Total Dissolved Solids	404	20.0	mg/l	411		98	9.05-111.3			
Batch 9061065										
Duplicate (9061065-DUP1)		Source: 19F0	050-01	Prepared	& Analyz	ed: 06/10	/19			
Specific Conductance (EC)	4630	1.00	umhos/cm		4600			0.7	20	
Reference (9061065-SRM1)				Prepared	& Analyz	ed: 06/10	/19			
Specific Conductance (EC)	440	1.00	umhos/cm	448		98	9.96-110.0).		
Batch 9061154										
Blank (9061154-BLK1)				Prepared:	06/10/19	Analyze	d: 06/11/19	9		
Total Suspended Solids	ND	20.0	mg/l						- Laur	
Duplicate (9061154-DUP1)		Source: 19F0	142-01	Prepared:	06/10/19	Analyze	d: 06/11/19	9		
Total Suspended Solids	407	20.0	mg/l		407			0	20	
Reference (9061154-SRM1)				Prepared:	06/10/19	Analyze	d: 06/11/19	9		
Total Suspended Solids	98.0	20.0	mg/l	100		98	77.1-110		<u> </u>	
Batch 9061157										
Blank (9061157-BLK1)				Prepared:	06/11/19	Analyze	d: 06/12/19)		
Total Kjeldahl Nitrogen	ND	0.5	mg/l							



Conventional Chemistry Parameters by Standard/EPA Methods - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 9061157										
LCS (9061157-BS1)				Prepared:	06/11/19	Analyzed	1: 06/12/1	9		
Total Kjeldahl Nitrogen	1.0	0.5	mg/l	1.00		98	90-110			
LCS Dup (9061157-BSD1)				Prepared:	06/11/19	Analyzed	: 06/12/1	9		
Total Kjeldahl Nitrogen	1.0	0.5	mg/l	1.00		99	90-110	1	20	
Duplicate (9061157-DUP1)		Source: 19F0	0071-41	Prepared:	06/11/19	Analyzed	1: 06/12/1	9		
Total Kjeldahl Nitrogen	ND	0.5	mg/l		ND				20	
Matrix Spike (9061157-MS1)		Source: 19F0	0071-41	Prepared:	06/11/19	Analyzed	: 06/12/1	9		
Total Kjeldahl Nitrogen	2.0	1.0	mg/l	2.00	ND	98	90-110			
Matrix Spike Dup (9061157-MSD1)		Source: 19F0	0071-41	Prepared:	06/11/19	Analyzed	: 06/12/1	9		
Total Kjeldahl Nitrogen	2.0	1.0	mg/l	2.00	ND	100	90-110	2	20	
Batch 9061161										
Blank (9061161-BLK1)				Prepared:	06/11/19	Analyzed	: 06/12/19	9		
Hardness (Total)	ND	10	mg CaCO3/	L		-				
Duplicate (9061161-DUP1)		Source: 19F0	0092-01	Prepared:	06/11/19	Analyzed	: 06/12/1	9		
Hardness (Total)	194	10	mg CaCO3/		199			2	20	
Batch 9061171										
Blank (9061171-BLK1)				Prepared	& Analyz	ed: 06/13/	19			
Ammonia as N	ND	0.10	mg/l							





Conventional Chemistry Parameters by Standard/EPA Methods - Quality Control

Amalas	D14	Reporting	71:4-	Spike	Source	9/ D.F.C	%REC	DDD	RPD	N
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 9061171										
LCS (9061171-BS1)				Prepared &	& Analyze	:d: 06/13/1	19			
Ammonia as N	0.96	0.10	mg/l	1.00		96	90-110			
LCS Dup (9061171-BSD1)				Prepared a	& Analyze	:d: 06/13/1	19			
Ammonia as N	0.97	0.10	mg/l	1.00		97	90-110	0.5	20	
Duplicate (9061171-DUP1)		Source: 19F02	34-01	Prepared a	& Analyze	ed: 06/13/1	19			
Ammonia as N	0.06	0.10	mg/l		0.05			9	20	
Matrix Spike (9061171-MS1)		Source: 19F02	34-01	Prepared &	& Analyze	d: 06/13/1	19			
Ammonia as N	2.03	0.20	mg/l	2.00	0.05	99	90-110			
Matrix Spike Dup (9061171-MSD1)		Source: 19F02	34-01	Prepared &	& Analyze	d: 06/13/1	19			
Ammonia as N	2.01	0.20	mg/l	2.00	0.05	98	90-110	1	20	





Notes and Definitions

HT-15 This sample was received outside of the EPA's recommended 15 minute holding time for this analysis. However, the sample was

analyzed immediately upon receipt.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Analytical, Inc.

-EnviroMatrix (M)

Analytical, Inc.

19F0112 CHAIN-OF-CUSTODY RECORD 4340 Viewridge Ave., Stc. A - San Diego, CA 92123 - Phone (858) 560-7717 - Fax (858) 560-7763 EMA LOG #: Requested Analysis Client: Walls STIC Attn: Samplers(s): 9 Address: se attachmen DITTE 2004 BTXE MTBE eul sorings Cu. NATO n Fecal o Ext o Entero Pax: o PAH only phic Plate Count (HPC) 2 o Cyanide beteronenva horma. V. com Email: AC Title 22/CAMI7 Metals o Diesel SCE Y Z o Metals o P/A Billing Address: o Total (MITF) OMIF Z E (SVOC) STO 是是 G Gas Project ID: £ 下市の監 000 B 624/8260 (VOC) Ş 0010 CCLP (RCRA) Project #: PO #: Ö o EC OIS (TPH) 525 / 8270 ē 08 / 8082 1908 / 8081 TBT (Orga Ö Sample Container Sample Sample Client Sample ID Date Time Matrix # / Type ID # 64/19 /6:30 DW N-Kellu 1 2 3 6/4/19 11:25 DW Warren Crossin × 6 7 8 9 10 Matrix Codes: A - Air, DW - Drinking Water, GW - Groundwater, SW - Storm Water RELINQUISHED BY DATE/TIME RECEIVED D Signature Walan C. WW = Wastewater, S = Soit, SED = Sediment, SD = Solid, T = Tissue, O = Oil, L = Liquid Signature 1240 Shipped By: Courier CUPS G FedEx GUSPS Client Drop Off G Other o John Pererso Marie Res 6/4/19 Tura-Around-Time: a Same Day a l day a 2 day a 3 day a 4 day a 5 day Casta (7-business days) Reporting Requirements: G Fax PDF o Excel o Geotracker/EDF o Hard Copy o EDT o CEDEN o SDW18 Signature Signature Sample Dispesal: QBy Laboratory | Return to Client: P/U or Delivery | Archive Print Print Sample lategrity Company: Сопрану: Correct Containers Yes No N/A Containers Properly Preseved: Yes No N/A Signature Signature Custody Seals Intact: Yos No M/A 6 Coase Print Temp @ Receipt: Print COC/Labels Agree; Yes No N/A Sampled By/ Client EMA Autosamples Company: Соправу: Project/Sample Excation/Address:

Project/Sample Comments:

Additional costs may apply. Please note there is a \$35 minimum charge for all clients.

²EMA reserves the right to return any samples that do not match our waste profile.

NOTE: By relinquishing samples to EMA, Inc., client agrees to pay for the services requested on this COC form and any additional analyses performed on this project. Payment for services is due within 30 days from date of invoice. Samples will be disposed of 7 days after report has been finalized unless otherwise noted. All work is subject to EMA's terms and conditions.

Analytical Services Quotation



Bid Date: (Bid Expires: 1 Prices Expire: 1

04/12/2019 12/31/2019 12/31/2019

				TAT	Unia	Extended
Matrix	Parameters	Method	#	(days)	Price	Price
Water	Metals Digestion/Prep Fee	Method	3	7	\$20.00	\$60.00
Water	iron (Total)	EPA 200.8	3	7	\$15.00	\$45.00
Water	tran (Diss)	EPA 200.8	3	7	\$15.00	\$45.00
Water	Zinc (Diss)	EPA 200.8	3	7	\$15.00	\$45.00
Water	Ammonia as N	EPA 350.1	3	7	\$30.00	\$90.00
Water	Dissolved Oxygen	SM4500-O G	3	7	\$20.00	\$60.00
Water	Hardness	EPA 200.7	3	7	\$35.00	\$105.00
Water	MBAS	SM5540 C	3	7	\$30.00	\$90.00
Water	Nitrate Nitrite as N	EPA 353.2	3	7	\$30.00	\$90.00
Water	Orthophosphate as P	SM4500 P E	3	7	\$20.00	\$60.00
Water	pH in water	SM4500-H+ B	3	7	\$20.00	\$60.00
Water	Specific Conductance (EC)	SM2510 B	3	7	\$25.00	\$75.00
Water	Sulfate	SM4500 SO4 E	3	7	\$20.00	\$60.00
Water	Total Dissolved Solids	SM2540 C	3	7	\$25.00	\$75.00
Water	Total Kjeldahl Nitrogen as N	EPA 351.2	3	7	\$55.00	\$165.00
Water	Total phosphate as P	SM4500 P B, E	3	7	\$25.00	\$75.00
Water	Total Suspended Solids	SM2540 D	3	7	\$25.00	\$75.00
Water	Turbidity	SM2130 B	3	7	\$20.00	\$60.00
Water	Coliform, Total & Fecal	SM 9221 B, E	3	7	\$35.00	\$105.00
Water	Enterococcus	SM 9230 A, B	3	7	\$55.00	\$165.00

--,-----

Visit Type: DVisual	Follow-Up St	ation Class: ☐ Field	ld DRémoved,_			-		
Site ID:		(Latitude:	33.9991		Outfall Size:		
Location:	4.1		Longitude	-116.9	756			
N-Ke	115		HSA: 90			7		
APN.	278-210-	1800		s): John F	Peterson			
		me: 10:30 a.		7 50 7	-,,			
		Annhala		Natural 🗆 l	Earthen	C 011		
(select only one) Atmospheric Cond		fanhole ☐ Concre			annel	☐ Other		
Weather		ly Cloudy 🙀 Ove	ercast □ Fog	1,00				
		hours but ≤ 0.1"	croasi = 1 og	66°F				
Flow	2110470							
Water Flow	X ⊟-Plowing	□ Ponded □ I	Drv		Flow reache	s receiving water?).	□No
Flow Rate: 6.3	. (cfs Fill in flow rate ca	•	a information heli		s receiving water :	1	
Flowin	~ JF		lling a Bottle or	_		Volcaite Area		3 Unknown
Diameter	g ripe	Volume	ining a Bottle of		991	Velocity Area Width		in Ploat
Depth	ft	Time to Fill	47,			Depth		in
Velocity	ft/sec					Velocity		ft/sec
Flow rate(gpm) = area(5.85 gpm			Flow rate(gpm) = width(ft)*depth(ft)*velo	city(fl/sec)*448.8
Area = Ta*diameter ² (Se	ee tabulated values (Ta) chart)				lse correction factor of 0. onveyance surface rougi		ding on
Observations						onveyance surface rougi	JIIE33.	
Odor 🔊	one Sewage	. □ Su	lfides	□ Petroleum	□ Manure	□ Oth	ner	🗆 na (dry)
Color □ N	one XYellow	□ Bro	own	☐ White	☐ Gray	□ Oth	ner	na (dry)
Clarity 🚘 🔾	ear 🗆 Cloudy	(> 4" vis) ☐ Mu	ırky (< 4" vis)		-	□ Oth	ner	na (dry)
Floatables DN		. □ Bu	bbles	□ Foam	□ Oily Sheen	_DPOth	ner alsal	□ na (dry)
Deposits ☐ N	one Coarse	Particulates Fin	ne Particulates	☐ Stains	☐ Oily Depos			,
Structural Condition	□ Normal	□ Damaged	□ Scour Pond	□ Erosion	□ Blockage	□ Oth	ner	
(select only one) Trash Assessmen	•							
Rating	☐ High (>400 p	ieces)	um (50 to 400 pie	ces) □Low	(<50 pieces)	□/None		
Evidence of Illegal I		,			eat To: 🗆 Huma	•	tic Health	
Comments:	2pg.	((Cooling o III commi					do Frodici	
Source Identificati	on and Eliminat	tion						
Evidence of Obvious	s IC/ID: Odor f	☐ Color ☐ Clarity ☐	Floatables High	h Flow I Non-	Standard Conn	nection 🗆 Other	,	□ No
Flow Source: Gro	undwater 🗆 Seep	age ☐ Irrigation Ru	unoff 🗆 Vehicle V	Vashing We	t Cleaning 🗆 🛭	Construction 🗆 na	a (dry)	
[] P	ool or Spa 🗆 Wate	er Line Break 🗆 NPI	DES Permitted Di	ischarge □ Oth	er	🗆 Una	ble to Deter	mine
Basis for Source Ide								
If Identified, Was So	urce Eliminated?	(If yes, describe in r	notes below)	Yes □ No □	na (dry)			
Source ID/Elimination			,		, ,			
								
Field Screening San	poles Collected?	X Yes No		Analytical	Lab Samples	Collected? X Yes	No	
Water Temp (°C)	170	NH3-N (mg/L)		NO3 (mg/L)		Ortho-PO4		
pH (pH units)		Turb. (NTU)		NO3-N (mg/L)		Ortho-PO4	-P (mg/L)	
Cond. (mS/cm)		MBAS (mg/L)						

Visit Type: 🕬	sual DFollow-Up St	tation Class: D Field	⊮Kemoved,	-		
Site ID:			Latitude: 32,99	79	Outfall Size:	
Location: - Ro	cl		Longitude: -116.			
7 -10	,90		HSA: 905.2		1	
APN:	278-210-18	00	Observer(s): John			
		me: /0:05 a.m.		La terraina	J	
	•	•	√Matural (⊒ Earthen .		
Conveyance (select only one)	□ Outlet □ M	Manhole □ Concrete C	.nannei / >	Channel	□ Other	
Atmospheric C	onditions					
		tly Cloudy QOvercas	st 🗆 Fog 66° F	_		
Last Rain 💢	> 72 hours □ < 72	2 hours but ≤ 0.1"	_			
Flow				B ABOVE AND THE IN-	*	
Water Flow	☐ Flowing	□ Ponded X Ory		Flow reaches	receiving water?: Yes	□ No N/
Flow Rate:	🗆 gpm 🛭	cfs Fill in flow rate calcula	ation supporting information b	pelow if applicable.	[☐ Unknown
Flo	wing Pipe	Filling	a Bottle or Known Volu	me	Velocity Area Method (L	
Diameter	ft	Volume			Width	in
Depth	ft	Time to Fill		sec [Depth	in
Velocity	fl/sec				Velocity	ft/sec
Flow rate(gpm) = a	rea(ft²)*velocity(ft/sec)*448. ² (See tabulated values (Ta	.8 1 Liter/sec = 15.85 gp a) chart)	pm		low rate(gpm) = width(ft)*depth(ft)*velo se correction factor of 0.5 to 0.9 depen	
Alea - 16 diameter	(See languages values [- 4) Cliary			nveyance surface roughness.	ally an
Observations						
Odor [None ☐ Sewage	e □ Sulfides	s 🗆 Petroleun	n 🗆 Manure	□ Other	□ na (dry)
Color	None ☐ Yellow	□ Brown	□ White	□ Gray	□ Other	□ na (dry)
Clarity	Clear Cloudy	(> 4" vis) ☐ Murky (-		-	□ Other	□ na (dry)
Floatables [☐ None ☐ Trash	☐ Bubbles	•	□ Oily Sheen	□ Other	□ na (dry)
•		Particulates ☐ Fine Particulates	articulates	□ Oily Deposit	ts 🗆 Other	
Structural Condi	tion Normal	□ Damaged □ So	cour Pond	□ Blockage	□ Other	
(select only one) Trash Assessm	iont					
Rating	☐ High (>400 p	pieces) Medium (f	50 to 400 pieces)	ow (<50 pieces)	7 None	
•	• • • •	s (describe in comments)			Health Aquatic Health	
_	al Dumping. 🗆 🖂	s (describe in commency	□ NO FOREITIAL II	lleat 10. D numa	Tealin Baquanc neam	
Comments:						
Source Identific	ation and Eliminat	tion				
			stables @ High Flow @ No	on-Standard Conne	ection Other	□No
		page 🛘 Irrigation Runoff	-			1140
					Unable to Deter	mine
					□ na (Not Dete	
		? (If yes, describe in notes			-	••
Source ID/Elimin		()		7		
Jource ID/Limin.	ation notes.					
Field Screening	Samples Collected?	Yes XNo	Analytic	al Lah Samples (Collected? Yes No	<u> </u>
Water Temp (°C)	NH3-N (mg/L)	NO3 (mg/L)		Ortho-PO4 (mg/L)	
pH (pH units)		Turb. (NTU)	NO3-N (mg	/L)	Ortho-PO4 -P (mg/L)	
Cond. (mS/cm)		MBAS (mg/L)				

								
Visit Type: Visual	51/Follow-Up Sta	ntion Class: 🗆 F	ield Removed,		_			
Site ID:			Latitude:	33.663		Outfall Size:	4511	
Location:	(50- (50	CCinc	Longitude	:-117.00	57		70	
Wa	TIEN CIO	2		905.21				
ไอน	rren Cro. lay, CA			s): John	Pelector	,		
	1,2019 Tin		m					
			<i>\</i>	aNatural □ E	arthen	C 011		
Conveyance (select only one)	□ Outlet □ M	anhole ☐ Con	rroid i nannai -	`	annel	☐ Other		
Atmospheric Cond	ditions							
Weather ☐ Cle			Overcast 🗆 Fog	6401	= Air			
Last Rain	2 hours □ < 72	hours but ≤ 0.1"		• .	• • •			
Flow								
Water Flow	Flowing		□ Dry			es receiving wate	•	□ No
Flow Rate: 21.4	101		e calculation supportin	-			•	3 Unknown
	g Pipe	Volume	Filling a Bottle or			Velocity Ar Width	ea Method (L	eaf Float)
Diameter Depth	ft ft	Time to F	iii	6 sec	SAL	Depth		in in
Velocity	ft/sec	1,,,,,,,,,,,				Velocity		ft/sec
Flow rate(gpm) = area(i			= 15.85 gpm			Flow rate(gpm) = width		
Area = Ta*diameter² (Se	ee tabulated values (Ta	chart)				Use correction factor of conveyance surface rou		ding on
Observations					•	on a garage agriculture	iginicoo.	
Odor XN	one 🗆 Sewage	0;	Sulfides	☐ Petroleum	□ Manure	ОС	ther	na (dry)
Color DN	-		Brown	□ White	☐ Gray	ПС	ther	na (dry)
Clarity >C	•	> 4" vis) □ i	Murky (< 4" vis)		•		ther	na (dry)
Floatables AN	one 🗆 Trash		Bubbles	□ Foam	□ Oily Sheer		ther	🛘 na (dry)
Deposits N		Particulates 🛛	Fine Particulates	□ Stains	□ Oily Depos	•		
Structural Condition (select only one)	ı □ Normal	□ Damaged	□ Scour Pond	□ Erosion	□ Blockage	о с	ther	
Trash Assessmen	ıt							
Rating	☐ High (>400 p	ieces) 🗆 Me	dium (50 to 400 pie	eces) Low	(<50 pieces)	№ None		
Evidence of Illegal D	•	(describe in com		Potential Thre		•	atic Health	
Comments:			, —					
Source Identificati	on and Eliminat	ion						
Evidence of Obvious				-				🗆 No
Flow Source: Gro								
			NPDES Permitted D		-			
Basis for Source Ide	entification: 🗆 Obs	served Discharge	☐ Indirect Evidence	e 🗆 Historical D	Data Other_		□ na (Not Deter	mined/Dry)
If Identified, Was So	ource Eliminated?	(If yes, describe i	in notes below) 🛘	Yes □ No □	i na (dry)			
Source ID/Elimination	on Notes:							
				-				
Field Screening San	ples Collected?	Yes N	0	Analytical	Lab Samples	Collected? Y	es No	
Water Temp (°C)	18°C	NH3-N (mg/L)		NO3 (mg/L)		Ortho-PO	4 (mg/L)	
pH (pH units)		Turb. (NTU)		NO3-N (mg/L)		Ortho-PO	4 -P (mg/L)	
Cond. (mS/cm)		MBAS (mg/L)						



25 June 2019



EMA Log #: 19F0488

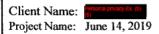
Project Name: June 14, 2019

Enclosed are the results of analyses for samples received by the laboratory on 06/14/19 09:20. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that this data is in compliance both technically and for completeness.

Dan Verdon

Laboratory Director

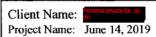
CA ELAP Certification #: 2564



ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Warren Crossing	19F0488-01	Drinking Water	06/14/19 06:30	06/14/19 09:20
N-Kelly Spring	19F0488-02	Drinking Water	06/14/19 08:15	06/14/19 09:20





Total Metals by EPA 200 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Warren Crossing (19F048	8-01) Drinking Water Sa	mpled: 06/14	/19 06:30	Received:	06/14/19 0	9:20			
Iron	0.056	0.050	mg/l	1	9061920	06/19/19	06/19/19	EPA 200.8	
N-Kelly Spring (19F0488-	02) Drinking Water Sam	pled: 06/14/1	9 08:15 Re	eceived: 06	/14/19 09:	20			
Iron	0.644	0.050	mg/l	1	9061920	06/19/19	06/19/19	EPA 200.8	





Conventional Chemistry Parameters by Standard/EPA Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Warren Crossing (19F0488-01) Drin	king Water Sa	mpled: 06/14	4/19 06:30 F	Received:	06/14/19 0	9:20			
Color	12	1	Color Units	1	9061733	06/14/19	06/14/19	SM2120 B	
Nitrate/Nitrite as N	ND	0.05	mg/l		9061749	06/17/19	06/17/19	EPA 353.2	
Phosphorus, Total	0.08	0.05	,	"	9062149	06/21/19	06/21/19	SM4500 PB, E	
Total Dissolved Solids	726	20.0		"	9061941	06/19/19	06/20/19	SM2540 C	
N-Kelly Spring (19F0488-02) Drinki	ing Water Sam	pled: 06/14/1	19 08:15 Re	ceived: 06	/14/19 09:	20			
Color	26	1	Color Units	1	9061733	06/14/19	06/14/19	SM2120 B	
Nitrate/Nitrite as N	ND	0.05	mg/l	hr	9061749	06/17/19	06/17/19	EPA 353.2	
Phosphorus, Total	0.08	0.05		**	9062149	06/21/19	06/21/19	SM4500 PB, E	
Total Dissolved Solids	329	20.0	"	*	9061941	06/19/19	06/20/19	SM2540 C	

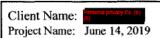




Total Metals by EPA 200 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9061920										
Blank (9061920-BLK1)				Prepared	& Analyzo	ed: 06/19/	19			
Iron	ND	0.050	mg/l							
LCS (9061920-BS1)				Prepared	& Analyze	ed: 06/19/	19			
Iron	0.105	0.050	mg/l	0.100		105	85-115			
LCS Dup (9061920-BSD1)				Prepared	& Analyze	:d: 06/19/	19			
Iron	0.100	0.050	mg/l	0.100		100	85-115	5	20	
Duplicate (9061920-DUP1)		Source: 19F04	42-11	Prepared	& Analyze	:d: 06/19/	19			
Iron	0.014	0.050	mg/l		0.009			39	20	QR-04
Matrix Spike (9061920-MS1)		Source: 19F04	42-11	Prepared	& Analyze	:d: 06/19/	19			
Iron	0.105	0.050	mg/l	0.100	0.009	96	70-130			
Matrix Spike Dup (9061920-MSD1)		Source: 19F04	42-11	Prepared	& Analyze	:d: 06/19/	19			
Iron	0.106	0.050	mg/l	0.100	0.009	96	70-130	0.8	20	





Conventional Chemistry Parameters by Standard/EPA Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9061733										
Blank (9061733-BLK1)				Prepared &	λ Analyze	d: 06/14/	19		<u></u>	
Color	ND	1	Color Units							
Duplicate (9061733-DUP1)		Source: 19F0	1488-01	Prepared &	t Analyze	d: 06/14/	19			
Color	11	1	Color Units		12			9	20	
Reference (9061733-SRM1)				Prepared &	Ł Analyze	d: 06/14/	19			
Color	50	1	Color Units			100	80-120		v	
Batch 9061749										
Blank (9061749-BLK1)				Prepared &	Analyze	d: 06/17/	19			
Nitrate/Nitrite as N	ND	0.05	mg/l							
LCS (9061749-BS1)				Prepared &	. Analyze	d: 06/17/	19			
Nitrate/Nitrite as N	0.50	0.05	mg/l	0.500		100	90-110			
LCS Dup (9061749-BSD1)				Prepared &	է Analyze	d: 06/17/	19			
Nitrate/Nitrite as N	0.49	0.05	mg/l	0.500		98	90-110	2	20	
Duplicate (9061749-DUP1)		Source: 19F0	497-01	Prepared &	. Analyze	d: 06/17/1	19			
Nitrate/Nitrite as N	0.05	0.05	mg/l		0.05			2	20	
Matrix Spike (9061749-MS1)		Source: 19F0	1497-01	Prepared &	Ł Analyze	d: 06/17/1	19			
Nitrate/Nitrite as N	1.03	0.10	mg/l	1.00	0.05	98	90-110			
Matrix Spike Dup (9061749-MSD1)		Source: 19F0	497-01	Prepared &	. Analyze	d: 06/17/1	19			
Nitrate/Nitrite as N	1.02	0.10	mg/l	1.00	0.05	97	90-110	1	20	





Conventional Chemistry Parameters by Standard/EPA Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Analyte	Result	LAHIR	Onts	Level	Resunt	76REC	Limits	KPD	Limit	Notes
Batch 9061941										
Blank (9061941-BLK1)				Prepared:	06/19/19	Analyze	d: 06/20/1	9		
Total Dissolved Solids	ND	20.0	mg/l							
Duplicate (9061941-DUP1)		Source: 19F05	84-01	Prepared:	06/19/19	Analyze	d: 06/20/1	9		
Total Dissolved Solids	852	20.0	mg/l		858			0.7	20	
Reference (9061941-SRM1)				Prepared:	06/19/19	Analyze	d: 06/20/1	9		
Total Dissolved Solids	412	20.0	mg/l	411		100	9.05-111.3			.,
Batch 9062149										
Blank (9062149-BLK1)				Prepared a	& Analyz	ed: 06/21	/19		_	
Phosphorus, Total	ND	0.05	mg/l							
LCS (9062149-BS1)				Prepared	& Analyz	ed: 06/21	/19			
Phosphorus, Total	0.54	0.05	mg/l	0.500		108	80-120			
LCS Dup (9062149-BSD1)				Prepared	& Analyz	ed: 06/21	/19			
Phosphorus, Total	0.54	0.05	mg/l	0.500		108	80-120	0.4	20	
Duplicate (9062149-DUP1)		Source: 19F07	06-03	Prepared a	& Analyz	ed: 06/21	/19			
Phosphorus, Total	0.11	0.05	mg/l		0.11			4	20	
Matrix Spike (9062149-MS1)		Source: 19F07	06-03	Prepared a	& Analyz	ed: 06/21	/19			
Phosphorus, Total	0.65	0.05	mg/l	0.500	0.11	108	80-120			
Matrix Spike Dup (9062149-MSD1)		Source: 19F07	06-03	Prepared a	& Analyz	ed: 06/21	/19			
Phosphorus, Total	0.67	0.05	mg/l	0.500	0.11	112	80-120	3	20	





Project Name: June 14, 2019

Notes and Definitions

QR-04 The RPD between the sample and sample duplicate is not valid since both results are below the reporting limit for this analyte.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference



سس	EnviroMatrix	
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Analytical, Inc. —

Page	of
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CHAIN-OF-CUSTODY RECORD

EnviroMatrix Analytical, Inc.

EMA	MA MARIE MAR						340 Viewridge Ave., Ste. A - San Diego, CA 92123 - Phone (858) 560-7717 - Fax (858) 560-7763 Requested Analysis																				
	T 5												F	Requ	uest	ed A	\na	lysi	3	-				***************************************			Words
Project ID: Project W: Project W: Sample Sample Container Data Time Matrix of Container					& Grease a 413.1 a 413.2 a 1664	8015 (TPH) a Gas a Diesel o Ext	624/8266 (VOC) Full BTXE MTBE Oxy Nap	625 / 8270 (SVOC) a PAH only	608 / 8081 (Organochlorise Pesticides)	608 / 8082 (Polychlorinated Bipiacayls)	i (Organophosphorus Pesticides)	TBT (Organotin Compounds)	aec ats atds	te o Nitrite y N-N o TKN oNH3	CAC TIME 22/CAMIT Meth 0 TILC 0 STLC	ICIP (RCRA) a Metaks a Organics	Cr Ch Pb Ni Ag Za n Dissolved	Coliform, n Total (MTF) n Fecal (MTF)	at, T+E.Coli 11 P/A 11 Emaneration	enococus, a MTF a Enterolert	Heterotrophic Plate Count (HPC)	OD a COD a Cysmide	Total Phosphurasi	1000	Coho	٦٥٢	
ID# Client Sample ID	Date	Time	Matrix	# / Type	₹ [50	\$	3	523	8	8	1718	18	HdG	CONTRACT	VЭ	2	3	3	S	B	垦	a BOD				1	
1 Warren Cristias	Glides	6.30	1)™											X									X	×	X	×	
2		a-m	,																L								
3					L		_											_			_					_	
4	12/2		.		-		_	_	_								_	_	<u>_</u>	<u></u>	_	_				_	_
5 N-Kelly Space	6/14/19		PN		<u> </u>	<u> </u>	-	╄	-	-	_			×		<u> </u>		-	┞		┡	-	×	~	X	쏙	-
		OLIVA.			┡	 	-	+-	-	-		-			<u> </u>	├-	 	├	<u>Ļ</u> .	₩	├	-			_		_
7		-			╄-	╀-	╄-	╄	-	┡	┡	-	-	-	-	-	-	╄	-	-	╄	-				-	_
8					⊢	-	-	+-	-	-	<u> </u>	-		_	-	 	-	-	╄~	-	-	-			_	_	_
9					-	-	-	-	-	_							┡-	-	<u> </u>	-	-	-			_	_	
10 Matrix Codes: A = Air, DW = Drinking Water, GW = Groundwate	5 SV - Starr	Water	L		+-		L_	ELIN	OVITO	LEE	L.			-	<u></u>	TE/I	17.0	L	-			L_	EĮVE				_
WW = Wastewater, S = Soil, SED = Sediment, SD = Solid, T = Tiss					Sim	aturo-			QUIS	LED.	DI	-		-	אע	77.	-	1 ***	Sign	n france	1	KEC	CLVE	777	a,	-	-
Shipped By: @ Courier @ UPS @ FedEx @ USPS A Client Dro					Print			Perso	nal y Ex.			-	and the same	1	> l	/ ((11	19	The state of the s	A CHARLES AND A		-/4	The			=	74
Tura-Around-Time: D Same Day D ! day D 2 day D 3 day D 4	The second secon	the second second	-business d	iys)	Con	peny:		(b)(6)		~				1	9	. 6	20)		pany:	E.	MI	4				
Reporting Requirements: Faxing PDF Excel Geotracker/EDF	o Hard Copy	o EDT a C	EDEN o S	owis	Sign														Sign	ature							
Sample Disposal: By Laboratory of Return to Client: P/U or	Delivery 13 As	robive			Prin														Print								
Sumple Integrit			-		Con	pany:													Com	pany:							
Correct Containers Yes No N/A	Containers :			No N/A	-	ature													Sign	ature							
Custody Seals Intact: Yes No (NA) Temp @ Receipt:					Prin									1					Prin	******							
COC/Labels Agree, Yes No N/A Sampled By Flient BMA Autosampler Company: Company:																											
Project/Sample Location/Address: Project/Sample Comments:																									_		

NOTE: By relinquishing samples to EMA, Inc., client agrees to pay for the services requested on this COC form and any additional analyses performed on this project. Payment for services is due within 30 days from date of invoice. Samples will be disposed of 7 days after report has been finalized unless otherwise noted. All work is subject to EMA's terms and conditions.

Additional costs may apply. Please note there is a \$35 minimum charge for all clients.

²EMA reserves the right to return any samples that do not match our waste profile.

Visit Type: Visua	Follow-Up St	ation Class: DFie	eld 🗆 Removed,_					
Site ID:			Latitude:	32.1	979	Outfall S	ize:	
Location:	Rock		Longitude		9709			
•		10.	HSA:	905.21				
APN:	178-210-	1100	Observer(icy Ex. (b)(6)			
Date: Tune 1	4,2019 Tir	ne: 8:20	OBSCIVE (C	»). /	J			
^		0:20		Natural C	Earthen			
Conveyance (select only one)	□ Outlet □ M	lanhole Concre			Channel	☐ Other		
Atmospheric Con	ditions							
Weather □ Cl	ear □ Part	ly Cloudy ☐ Ov	ercast 🗆 Fog	590	· F			
Last Rain	72 hours □ < 72	hours but ≤ 0.1"		<i>J</i> ,	'			
Flow							•	
Water Flow	☐ Flowing	□ Ponded \\	Dry		Flow reac	hes receiving	water?: □ Yes	.ZTNo
Flow Rate:	🗆 gpm 🛭	cfs Fill in flow rate c	alculation supportin	g information b		_		Unknown
Flowi	ng Pipe	Fi	illing a Bottle or	- Known Volus	me	Veloci	ty Area Method (L	
Diameter	ft	Volume			mL.	Width		in l
Depth	ft	Time to Fill			sec	Depth		in
Velocity	ft/sec				-	Velocity	1	Nsec .
	(fi²) "velocity(fil/sec)" 448.		5.85 gpm	•	-		width(ft)*depth(ft)*velo	
Area = Ta*diameter² (S	ee taourateo varues (Ta	j chanj				conveyance surfa	ctor of 0.5 to 0.9 depend ace roughness.	nng on
Observations							-	
Odor 🗆 N	one Sewage	□ Su	ulfides	☐ Petroleum	□ Manure		☐ Other	na (dry)
Color D	ione 🗆 Yellow	□ Br	rown	□ White	□ Gray		☐ Other	na (dry)
	lear Cloudy	(> 4" vis) 🗆 Mu	urky (< 4" vis)		,		☐ Other	□ na (dry)
Floatables	lone 🛮 Trash		ubbles	□ Foam	□ Oily She	en	□ Other	□ na (dry)
Deposits 🗆 N	lone Coarse	Particulates 🛛 Fir	ne Particulates	☐ Stains	☐ Oily Dep	osits	□ Other	•
Structural Conditio	n 🗆 Normal	□ Damaged	☐ Scour Pond	□ Erosion	□ Blockage	•	□ Other	
(select only one)	.+							
Trash Assessmer Rating	п. ☐ High (>400 р	iones) [7] Medi	ium (50 to 400 pie	1 /2en	w (<50 pieces)	[] None		
•		,	,	•			Asustia Liesith	
Evidence of Illegal		•	-	Potentiai in	reat to: U Hur	nan rieann L	Aquatic Health	
Comments:								
Source Identificat	ion and Eliminat	ion						***************************************
Evidence of Obviou			Floatables D Hi	th Flow □ No	on-Standard Co	nnection Ot	her	□No
Flow Source: Gr		-		-				
		er Line Break						mine
Basis for Source Id					-			
If Identified, Was S		_						,
: *		(ii yes, describe iii	notes below,	163 (110	Li iia (di y)			
Source, ID/Eliminati	on Notes:							
					.,			
Fi-110				A 1- 47 -	-11 -b C	- Callerate do		
Field Screening Sa	nples Collected?	Yes No		T	al Lab Sample		Yes No	
Water Temp (°C)		NH3-N (mg/L)		NO3 (mg/L)		Orth	o-PO4 (mg/L)	
pH (pH units)		Turb. (NTU)		NO3-N (mg/	L)	Ortho	o-PO4 -P (mg/L)	
Cond. (mS/cm)		MBAS (mg/L)						

Visit Type: ヹ	Visual ☑ Follow-Up Sta	ation Class: 🗆 Field 🗆	Removed,								
Site ID:			Latitude: 33.	9191	Outfall Size:	Outfall Size:					
Location:	V 11		Longitude: ~ ([
Location: N-	Kerly		HSA: 905.								
APN	: 278-210-180	o	Observer(s):	onal privacy Ex. (b)(6)							
Date: June	14.2619 Tir	ne: 8:15a.m.	·		-						
Conveyance			, ∖ X Natur	i 🗆 Earthen	- OII						
(select only one)	□ Outlet □ M	lanhole Concrete C	Creek	Channel	□ Other						
Atmospheric	Conditions										
Weather	□ Clear □ Part	ly Cloudy 🗆 Overcas	t □Fog t	59°C							
Last Rain	☆ > 72 hours □ < 72	hours but ≤ 0.1"	۷								
Flow											
Water Flow	Flowing	□ Ponded □ Dry		Flow rea	ches receiving water	r?: TYes	□ No				
Flow Rate!	<u>~3 ``</u> t y (gpm □	cfs Fill in flow rate calcula	tion supporting inform	ation below if applicat	ole.e.stimate	∕ ' ' □] Unknown				
F	lowing Pipe		a Bottle or Known			rea Method (L	eaf Float)				
Diameter	ft	Volume		mL	Width		in				
Depth	ft	Time to Fill		sec	Depth	4	in				
Velocity	ft/sec = area(ft²)*velocity(ft/sec)*448.	8 1 Liter/sec = 15.85 gr	102		Velocity Flow rate(gpm) = widt	.i	ft/sec				
	ter² (See tabulated values (Ta		nii		Use correction factor of						
Ob					conveyance surface ro	ughness.					
Observations		- O 151									
Odor	✓ None □ Sewage			roleum 🗆 Manure	_	Other	□ na (dry)				
Color	□ None ☑ Yellow	☐ Brown	□ Wh	te ☐ Gray	_	Other	na (dry)				
Clarity Floatables	☑ Clear ☐ Cloudy (☐ None ☐ Trash	(> 4" vis) ☐ Murky (☐ Bubbles	,	m □ Oily Sh		Other Other	□ na (dry)				
Deposits		Particulates Fine Pa		•	,	Other	☐ na (dry)				
Structural Con			cour Pond	•	•	Other					
(select only one)											
Trash Assess											
Rating	☐ High (>400 p		60 to 400 pieces)	□ Low (<50 pieces	•						
	egal Dumping: 🗆 Yes	s (describe in comments)	□ No Poten	tial Threat To: 🛭 H	uman Health Aq	uatic Health					
Comments:											
Source Identi	fication and Eliminat	rion									
			tables Uish Elev	□ Non Ctandard C	Connection Other						
		☐ Color ☐ Clarity ☐ Floa	•				□ No				
Flow Source:		page □ Irrigation Runoff er Line Break □ NPDES					mine				
Rasis for Sour		served Discharge Indir									
		_				Li na (Not Deter	mined/Dry)				
•		(If yes, describe in notes	below) Lites	JNO □ na (dry)							
Source ID/Elim	ination Notes:										
Field Commit	- 0 1 - 0 - 11 - 1 - 10	b v		10.11.10		, ,,,,					
	g Samples Collected?	Yes □ No		'	les Collected?	•					
Water Temp (°C) 17°C	NH3-N (mg/L)	NO3	mg/L)	Ortho-PC	04 (mg/L)					
pH (pH units)		Turb. (NTU)	NO3-	N (mg/L)	Ortho-PC	04 -P (mg/L)					
Cond. (mS/cm	1)	MBAS (mg/L)									

City of Poway Dry Weather Major MS4 Outfall Monitoring Field Datasheet

Visit Type: / Visu	al 🗷 Follow-Up St	ation Class: 🗆 Field 🗆	Removed,		_			
Site ID:			Latitude:	33.603	2	Outfall Size:	48"	
Location: \Na	cen cros	zinc	Longitude:	-117.00	57		10	
P	.rren cros)		5.21				
100	vay, CA		Observer(s	Personal privacy Ex.	(b)(6)			
Date: June 14	.2619 Tin	ne: 6:30 am.)	_		
Conveyance (select only one)	,	lanhole Concrete C		Natural □ Ea reek Cha	arthen nnel	☐ Other		
Atmospheric Co	nditions							
Weather	lear □ Part	ly Cloudy 🗆 Overcas	t □ Fog	590F	-			
Last Rain 🔫	72 hours □ < 72	hours but ≤ 0.1"		• / /				
Flow								
Water Flow	Flowing	□ Ponded □ Dry			Flow reach	es receiving water	er?: 🔀 Yes	□ No
Flow Rate: 2	. Sgpm □	cfs Fill in flow rate calcula	tion supporting	information belov	w if applicable.) Unknown
	ring Pipe		a Bottle or h	Cnown Volume			rea Method (L	eaf Float)
Diameter	ft	Volume	48	2	391	Width		in
Depth Velocity	ft ft/sec	Time to Fill	78	sec		Depth Velocity		in ft/sec
Flow rate(gpm) = are	a(fl²)*velocity(fl/sec)*448.		om			Flow rate(gpm) = widtl	h(ft)*depth(ft)*velo	city(ft/sec)*448.8
Area = Ta*diameter ²	See tabulated values (Ta) chart)				Use correction factor of conveyance surface ro		ding on
Observations						,	-g	
Odor 🗹	None ☐ Sewage	☐ Sulfides		☐ Petroleum	☐ Manure		Other	□ na (dry)
Color	None Z Yellow	☐ Brown		□ White	□ Gray		Other	□ na (dry)
	Clear Cloudy		-				Other	☐ na (dry)
_	None Trash	☐ Bubbles		□ Foam	☐ Oily Shee		Other	☐ na (dry)
Deposits Structural Conditi		Particulates		☐ Stains	☐ Oily Depo		Other	
(select only one)	on 🗆 Normal	☐ Damaged ☐ S	cour Pond	☐ Erosion	□ Blockage	L (Other	
Trash Assessme								
Rating	☐ High (>400 p	, ,		,	<50 pieces)	•		
Evidence of Illega	I Dumping: ☐ Ye	s (describe in comments)	□ No	Potential Threa	at To: 🗆 Hum	nan Health 🛭 Aqu	uatic Health	
Comments:								
Source Identifica	ation and Elimina	ion	***************************************					
		☐ Color ☐ Clarity ☐ Floa	tables □ Hia	h Flow Non-9	Standard Cor	nection □ Other		□ No
		page ☐ Irrigation Runoff	-					🗆 110
		er Line Break NPDES						mine
		served Discharge Indir						
		(If yes, describe in notes					,	
Source ID/Elimina		(ii you, accorned iii rictae	201011)		(0.))			
Field Screening S	amples Collected?	¥Yes □ No		Analytical l	Lab Samples	s Collected?	′es □ No	
Water Temp (°C)	17.500	NH3-N (mg/L)		NO3 (mg/L)			4 (mg/L)	
pH (pH units)		Turb. (NTU)		NO3-N (mg/L)		Ortho-PO	4 -P (mg/L)	
Cond. (mS/cm)		MBAS (mg/L)						

Lab No. M31977

Reported: 2-14-19

Client: Personal privacy Ex. (b)(6)

Received: 2-11-19 1100AM

Sample: Water

Identification:
- Site Code: 1000
- Sampled by: KK

DateTime: 2-9-19 748AM Type of sample: Water Chlorine Residue: NA

Sample Site: Kelly Spring 33.991 Lat -116.9752 Long

RESULTS

Total Coliform

E Coli

Presence = 870.4 mpn/1ooml

Presence = 32.1 mpn/100ml

Method 9223B

Method 9223B

Date Start: 2-11-19

Date Completed: 2-12-19

Date Reported: 2-14-19

Time Start: 1130AM

Time Completed: 1100AM

indul Mahana

Linda L. Webster Lab supervisor



02/28/2019 22:35 Reported:

Project: Water Analysis

Project Number: 23575: Feetons Project Manager: Linda Webster

Metals Analysis

BCL Sample ID: 1904684-01	Client Sample	e Name:	Kelly Spri	ng 33.9991	LAT-116.9752	Long, 2/9/2019	7:48:00AM	
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Aluminum	0.27	mg/L	0.020	0.014	EPA-200.8	ND		1
Total Recoverable Arsenic	ND	mg/L	0.0020	0.00070	EPA-200.8	ND		1
Total Recoverable Barium	0.045	mg/L	0.0010	0.00021	EPA-200.8	ND		1
Total Recoverable Cadmium	ND	mg/L	0.0010	0.00011	EPA-200.8	ND		1
Total Recoverable Chromium	0.0016	mg/L	0.0030	0.00050	EPA-200.8	0.0018	J	1
Total Recoverable Copper	0.00096	mg/L	0.0020	0.00022	EPA-200.8	ND	J	1
Total Recoverable Iron	0.35	mg/L	0.050	0.030	EPA-200.7	ND		2
Total Recoverable Lead	ND	mg/L	0.0010	0.00010	EPA-200.8	ND		1
Total Recoverable Manganese	ND	mg/L	0.010	0.0040	EPA-200.7	ND	· · · · · · · · · · · · · · · · · · ·	2
Total Recoverable Mercury	0.000058	mg/L	0.00020	0.000029	EPA-245.1	0.000060	J	3
Total Recoverable Selenium	0.0013	mg/L	0.0020	0.00019	EPA-200.8	0.00029	J	1
Total Recoverable Silver	ND	mg/L	0.0010	0.00010	EPA-200.8	ND		1
Total Recoverable Zinc	0.041	mg/L	0.010	0.0017	EPA-200.8	0.0029		1

			Run				QC
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID
1	EPA-200.8	02/22/19 07:45	02/22/19 13:29	ARD	PE-EL3	1	B038262
2	EPA-200.7	02/22/19 07:40	02/22/19 16:32	JRG	PE-OP2	1	B038259
3	EPA-245.1	02/20/19 09:00	02/20/19 14:35	JP1	CETAC2	1	B038089

Report ID: 1000856894 Page 7 of 15







Reported: 02/28/2019 22:35 Project: Water Analysis

Project Number: 23575:

Project Manager: Linda Webster

Water Analysis (General Chemistry)

BCL Sample ID:	1904684-01	Client Sampl	e Name:	Kelly Spri	ng 33.9991	LAT-116.9752 L	7:48:00AM		
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quais	Run #
Total Recoverable Calc	ium	11	mg/L	0.10	0.014	EPA-200.7	ND		1
Total Recoverable Mag	nesium	7.6	mg/L	0.050	0.019	EPA-200.7	ND		1
Total Recoverable Sodi	ium	77	mg/L	0.50	0.051	EPA-200.7	ND		1
Total Recoverable Pota	ssium	2.0	mg/L	1.0	0.10	EPA-200.7	ND		1
Fluoride		0.10	mg/L	0.050	0.012	EPA-300.0	ND		2
Nitrate as N		4.9	mg/L	0.10	0.021	EPA-300.0	ND	A26,S05	2
Sulfate		17	mg/L	1.0	0.13	EPA-300.0	ND		2
MBAS		NĎ	mg/L	0.10	0.015	EPA-425.1	ND	A26,S05	3
Nitrite as N		ND	mg/L	0.050	0.010	EPA-353.2	ND	A26,S05	4
Total Phosphorus		ND	mg/L	0.050	0.017	EPA-365.4	ND		5

			Run				QC	
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-200.7	02/22/19 07:40	02/22/19 16:32	JRG	PE-OP2	1	B038259	
2	EPA-300.0	02/13/19 17:00	02/13/19 23:27	SAV	IC2	1	B037692	
3	EPA-425.1	02/14/19 08:15	02/14/19 08:15	JMN	SPEC06	1	B037737	
4	EPA-353.2	02/14/19 10:32	02/14/19 10:32	MC1	KONE-1	1	B037830	
5	EPA-365.4	02/19/19 20:30	02/25/19 12:45	JMH	SC-1	1	B038057	

Report ID: 1000856894

Lab no: 23575

Reported: 4-16-18

Client: Personal privacy

Received: 2-11-19

Sample: Water

Identification: Kelly Spring 33.9991 Lat -116.9752 Long

	Results	Units	DLR	Method
Calcium	11	mg/l	0.05	200.7
Magnesium	7.6	mg/l	0.05	200.7
Sodium	77	mg/l	0.05	200.7
Bicarbonate	27	mg/l	1	2320B
Sulfate	17	mg/l	NA	300
Chloride	121	mg/l	1	4500CLB
Nitrate	4.9	mg/l	0.10	300
Nitrite	<0.050	mg/l	0.010	300
MBAS	<0.10	mg/l	0.10	5540C
Iron	0.35	mg/l	0.05	3120B
Fluoride	0.10	mg/l	0.02	300
Copper	0.00096	mg/l	50	200.8
Manganese	<0.01	mg/l	0.01	3120B
Zinc	0.041	mg/l	50	3120B
pH	6.40	units	NA	4500HB
Conductivity	355	mic/cm	10	2510B
Total dissolved solids	464	mg/l	1	2540C
Hardness	96	mg/l	1	2340
Alkalinity	NA	mg/l	1	2130B

ATS Environmental, Inc

104 S 8th Street Brawley, Ca. 92227 760-344-2532 FAX 760-344-3459

Lab no: 23075

Date Reported: 4-16-19

Client: Personal privacy

Date Received: 2-11-19

Sample: Water

Identification: Kelly Spring 33.9991 Lat -116.9752 Long

Turbidity	NA	NTU	0.05	2130A
Odor	NA	units	1	2150A
Color	NA	units	1	2120A
Arsenic	<0.0020	mg/l	NA	200.8
Barium	0.045	mg/l	NA	200.8
Cadmium	<0.010	mg/l	0.005	200.8
Chromium	0.0016	mg/l	NA	200.8
Lead	<0.0010	mg/l	0.002	200.8
Mercury	0.000058	mg/l	0.0020	245.1
Selenium	0.0013	mg/l	0.0020	200.8
Silver	<0.0010	mg/l	0.0010	200.8
Aluminum	<0.05	mg/l	NA	200.8

Portion of analysis by B C Laboratories 1904684, copy of report enclosed

Linda L. Webster, Lab supervisor

ATS ENVIRONMENTAL

104 S. 8th St.

Brawley, CA 92227

Tel: (760) 344-2532 Fax: (760) 344-3459

CHAIN OF CUSTODY

LAB NO:	23575
DATE:	2-11-19

Client: Personal privacy Ex. (b)(6)	
Address:	Phone:
	Fax:

SAMPLE INFORMATION

SAMPLE ID	DATE SAMPLE	MATRIX (w, dw,solid, ww, liq, soil)	SAMPLE TIME	ANALYSIS
KELLY SPRING 33.9991 LAT -116.9752 LONG	2-9-19	W	748AM	CA,CU,MBAS,FE MG,MN,NA,SO4,ZN ,AL,BA,AS,CD,CR,P B,HG,NO3 AS N,NO2 AS N SE,AG,F,P
REGULAR TITLE 22				
	KELLY SPRING 33.9991 LAT -116.9752 LONG	KELLY SPRING 33.9991 LAT -116.9752 LONG	SAMPLE (w, dw, solid, ww, liq, soil)	SAMPLE (w, dw, solid, ww, liq, soil) TIME

Sampler's Name:	1 emp in range: Ye	S NO
Relinquished By:	Date: 2-9-19	Time: 1110AM
Received By: LINDA	Date: 2-9-19	Time:1110AM 16.9
Relinquished By:	Date:	Time:
Received By:	Date:	Time:



Reported: 02/28/2019 18:47 Project: Water Analysis

Project Number: 23576: Project Manager: Linda Webster

Metals Analysis

BCL Sample ID: 1904683-0	Client Sample	e Name:	Mouth of Wa	rren Creek 33.	0039 LAT -117-005	69 Long, 2/9/2019 6	3:35:00AM, Kevin Kelly	
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Aluminum	ND	mg/L	0.020	0.014	EPA-200.8	ND		1
Total Recoverable Arsenic	ND	mg/L	0.0020	0.00070	EPA-200.8	ND		1
Total Recoverable Barium	0.080	mg/L	0.0010	0.00021	EPA-200.8	ND		1
Total Recoverable Boron	0.21	mg/L	0.020	0.0017	EPA-200.8	0.0054	7	1
Total Recoverable Cadmium	ND	mg/L	0.0010	0.00011	EPA-200.8	ND		1
Total Recoverable Chromium	0.0011	mg/L	0.0030	0.00050	EPA-200.8	0.0018	J	1
Total Recoverable Copper	0.0039	mg/L	0.0020	0.00022	EPA-200.8	ND		1
Total Recoverable Iron	ND	mg/L	0.050	0.030	EPA-200.7	ND		2
Total Recoverable Lead	ND	mg/L	0.0010	0.00010	EPA-200.8	ND		1
Total Recoverable Manganese	ND	mg/L	0.010	0.0040	EPA-200.7	ND		2
Total Recoverable Mercury	0.000030	mg/L	0.00020	0.000029	EPA-245.1	0.000060	J	3
Total Recoverable Selenium	0.0024	mg/L	0.0020	0.00019	EPA-200.8	0.00029		1
Total Recoverable Silver	ND	mg/L	0.0010	0.00010	EPA-200.8	ND		1
Total Recoverable Zinc	0.022	mg/L	0.010	0.0017	EPA-200.8	0.0029		1

			Run				QC
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID
1	EPA-200.8	02/22/19 07:45	02/22/19 14:36	ARD	PE-EL3	1	B038262
2	EPA-200.7	02/22/19 07:40	02/22/19 16:29	JRG	PE-OP2	1	B038259
3	EPA-245.1	02/20/19 09:00	02/20/19 14:33	JP1	CETAC2	1	B038089

Report ID: 1000856869





Reported: 02/28/2019 18:47 Project: Water Analysis

Project Number: 23576: Project Manager: Linda Webster

Water Analysis (General Chemistry)

CL Sample ID:	1904683-01	Client Sampl	le Name:	Mouth of Wa	rren Creek 33	.0039 LAT -117-0056	9 Long, 2/9/2019	6:35:00AM, Kevin Kelly	
onstituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
otal Recoverable Calci	ium	160	mg/L	0.10	0.014	EPA-200.7	ND		1
otal Recoverable Magr	nesium	140	mg/L	0.050	0.019	EPA-200.7	ND		1
otal Recoverable Sodi	um	340	mg/L	0.50	0.051	EPA-200.7	ND		1
otal Recoverable Pota	ssium	4.2	mg/L	1.0	0.10	EPA-200.7	ND	-	1
uoride		0.28	mg/L	0.25	0.060	EPA-300.0	ND	A07	2
trate as N		2.5	mg/L	0.50	0.10	EPA-300.0	ND	A07,A26,S05	2
ulfate		770	mg/L	5.0	0.65	EPA-300.0	ND	A07	2
BAS		0.033	mg/L	0.10	0.015	EPA-425.1	ND	J,A26,S05	3
trite as N		ND	mg/L	0.050	0.010	EPA-353.2	ND	A26,S05	4
otal Phosphorus		ND	mg/L	0.050	0.017	EPA-365.4	ND		5
		·						7 120,000	

			Run				QC	
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-200.7	02/22/19 07:40	02/22/19 16:29	JRG	PE-OP2	1	B038259	
2	EPA-300.0	02/13/19 20:00	02/14/19 00:00	EMM	IC5	5	B037691	
3	EPA-425.1	02/14/19 08:15	02/14/19 08:15	JMN	SPEC06	1	B037737	
4	EPA-353.2	02/14/19 10:32	02/14/19 10:32	MC1	KONE-1	1	8037830	
5	EPA-365.4	02/19/19 20:30	02/25/19 12:44	HML	SC-1	1	B038057	

Report ID: 1000856869 4100 Atlas Court Bakersfield, CA 93308 (661) 327-4911 FAX (661) 327-1918 www.bclabs.com Page 6 of 15

Lab no: 23576

Reported: 4-16-18

Client Ex. (b)(6)

Received: 2-11-19

Sample: Water

Identification: Mouth of Warren Creek 33.0039 Lat -117.00569 Long

	Results	Units	DLR	Method
Calcium	160	mg/l	0.05	200.7
Magnesium	140	mg/l	0.05	200.7
Sodium	340	mg/l	0.05	200.7
			·	
Bicarbonate	165	mg/l	1	2320B
Sulfate	770	mg/l	NA	300
Chloride	560	mg/l	1	4500CLB
Nitrate	2.5	mg/l	0.10	300
Nitrite	<0.050	mg/l	0.010	300
MBAS	0.033	mg/l	0.10	5540C
Iron	<0.050	mg/l	0.05	3120B
Fluoride	0.28	mg/l	0.02	300
Copper	0.0039	mg/l	50	200.8
Manganese	<0.01	mg/l	0.01	3120B
Zinc	0.022	mg/l	50	3120B
рН	8.04	units	NA	4500HB
Conductivity	2190	mic/cm	10	2510B
Total dissolved solids	2245	mg/l	1	2540C
Hardness	868	mg/l	1	2340
Alkalinity	NA	mg/l	1	2130B

ATS Environmental, Inc

104 S 8th Street Brawley, Ca. 92227 760-344-2532 FAX 760-344-3459

Lab no: 23076

Date Reported: 4-16-19

Client: Personal privacy

Date Received: 2-11-19

Sample: Water

Identification: Mouth of Warren Creek 33.0039 Lat -117.00569 Long

Turbidity	NA	NTU	0.05	2130A
Odor	NA	units	1	2150A
Color	NA	units	1	2120A
Arsenic	<0.0020	mg/l	NA	200.8
Barium	0.080	mg/l	NA	200.8
Cadmium	<0.010	mg/l	0.005	200.8
Chromium	0.0011	mg/l	NA	200.8
Lead	<0.0010	mg/l	0.002	200.8
Mercury	0.000030	mg/l	0.0020	245.1
Selenium	0.0024	mg/l	0.0020	200.8
Silver	< 0.0010	mg/l	0.0010	200.8
Aluminum	<0.02	mg/l	NA	200.8
-				
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				,

Portion of analysis by B C Laboratories 1904683, copy of report enclosed

Linda L. Webster, Lab Supervisor

ATS ENVIRONMENTAL

104 S. 8th St.

Brawley, CA 92227

Tel: (760) 344-2532

Fax: (760) 344-3459

CHAIN OF CUSTODY

LAB NO:	23576
DATE:	2-11-19

Client: Personal privacy Ex. (9)(6)	
Address:	Phone:
	Fax:

SAMPLE INFORMATION

ID NO:	SAMPLE ID	DATE SAMPLE	MATRIX (w, dw,solid, ww, liq, soil)	SAMPLE TIME	ANALYSIS
1	MOUTH OF WARREN CREEK 33.0039 LAT -117-00569 LONG	2-9-19	W	635AM	CA,CU,MBAS,FE MG,MN,NA,SO4,ZN ,AL,BA,AS,CD,CR,P B,HG,NO3 AS N,NO2 AS N SE,AG,F,P
	REGULAR TITLE 22				

Sampler's Name:	Temp in range: Ye	s No
Relinquished By: KK	Date: 2-9-19	Time: 1110AM
Received By: LINDA	Date: 2-9-19	Time:1110AM 16.9
Relinquished By:	Date:	Time:
Received By:	Date:	Time:

Lab No. M31976

Reported: 2-14-19

Client: Personal privacy Ex. (b)(6)

Received: 2-11-19 1100AM

Sample: Water

Identification:
Site Code: 1000
Sampled by: KK
DateTime: 2-9-19

Type of sample: Water Chlorine Residue: NA

Sample Site: Warren Crossing 33.0030 Lat -117.0057 Long

RESULTS

Total Coliform

E Coli

Presence = >2419.2 mpn/1ooml

Presence = 38.1 mpn/100ml

Method 9223B Method 9223B

Date Start: 2-11-19

Date Completed: 2-12-19

Date Reported: 2-14-19

Time Start: 1130AM

Time Completed: 1100AM

Linda L. Webster Lab supervisor



Reported: 02/27/2019 17:09

Project: Water Analysis

Project Number: 23597: Project Manager: Linda Webster

ATS Laboratories 104 S. 8th Street Brawley, CA 92227

Metals Analysis

BCL Sample ID:	Client Sampl	e Name:	Warren Cree	ek Mouth @ Fo	ootbridge 33.0039 LA	T-117.0069 Long,	2/16/2019 7:30:00AM		
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run#
Total Recoverable Iro	n	7.4	mg/L	0.050	0.030	EPA-200.7	ND		1
Total Recoverable Ma	nganese	0.15	mg/L	0.010	0.0040	EPA-200.7	ND		1

			Run				QC
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID
1	EPA-200.7	02/27/19 10:45	02/27/19 14:43	JRG	PE-OP2	1	B038760

Report ID: 1000856215 Page 6 of 10

Lab no: 23597

Reported: 4-16-19

Client: Personal privacy

Received: 2-19-19

Sample: Water

Identification: Warren Creek Mouth 33.0039 Lat -117.0069 Long

Analysis	Results	Units	MDL	Date	Method
Iron	7.4	mg/l	0.050	2-27-19	200.7
Manganese	0.15	mg/l	0.010	2-27-19	200.7
Turbidity	119.0	ntu	1	2-22-19	2130A
Total					
Dissolved]		
Solids	361	mg/l	1	2-20-19	2540C
)		

Portion of analysis by B C Laboratories 1905668 copy of report enclosed

Linda L. Webster Lab supervisor

Lab No. M32002

Reported: 2-25-19

Client: Personal privacy Ex. (b)

Received: 2-19-19 1125AM

Sample: Water

Identification: Site Code: 1000 Sampled by: KK

DateTime: 2-18-19 327PM Type of sample: Water Chlorine Residue: NA

Sample Site: Warren Crossing 48" 33.0030 Lat -117.0057 Long

RESULTS

Total Coliform E Coli

Presence = 1011.1 mpn/100ml

Presence = 435 mpn/100ml

Method 9223B

Method 9223B

Date Start: 2-19-19

Date Completed: 2-20-19

Date Reported: 2-25-19

Time Start: 1200PM

Time Completed: 1100AM

Lab supervisor



Reported: 02/27/2019 17:27

Project: Water Analysis

Project Number: 23599: Project Manager: Linda Webster

Metals Analysis

BCL Sample ID:	Client Sampl	e Name:	Rock Haven	Rock Haven Spring 33,9978 LAT -116.9793 Long, 2/18/2019 3:27:00PM, KK										
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run#					
Total Recoverable iro	n	1.6	mg/L	0.050	0.030	EPA-200.7	ND		1					
Total Recoverable Ma	0.016	mg/L	0.010	0.0040	EPA-200.7	ND		1						

			Run			QC	
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID
1	EPA-200.7	02/27/19 10:45	02/27/19 14:48	JRG	PE-OP2	1	B038760



Reported: 03/15/2019 10:26

Project: Water Analysis

Project Number: 23652- Project Manager: Linda Webster

Metals Analysis

BCL Sample ID:	Client Sampl	e Name:	Rock Haven Spring 32.9978 LAT-116.9753 LAT, 2/28/2019 7:58:00AM, KM										
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run#				
Total Recoverable Iro	n	0.70	mg/L	0.050	0.030	EPA-200.7	ND		1				
Total Recoverable Ma	nganese	0.0043	mg/L	0.010	0.0040	EPA-200.7	ND	J	1				

			Run			QC	
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID
1	EPA-200.7	03/13/19 19:45	03/14/19 17:22	JRG	PE-OP2	1	B040217



Reported:

03/19/2019 11:26

Project: Drinking Water Analysis

Project Number: Drinking Water Analyses

Project Manager: Linda Webster

Metals Analysis

BCL Sample ID:	1907335-01	Client Sampl	e Name:	Fishermans Foot Bridge 33,0039 Long -117,0069 LAT: 2/28/2019 9:15:00AM, KK										
Constituent	,	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run#					
Total Recoverable Iron	n	1900	ug/L	50	30	EPA-200.7	ND		1					
Total Recoverable Ma	47	ug/L	10	4.0	EPA-200.7	ND		1						

			Run			QC	
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID
1	EPA-200.7	03/13/19 19:45	03/15/19 11:06	JCC	PE-OP2	1	8040216

Lab No. M32137

Reported: 3-14-19

Client: Personal privacy Ex. (b)

Received: 3-11-19 225PM

Sample: Water

Identification: Site Code: 1000 Sampled by: KK

DateTime: 3-11-19 1048AM Type of sample: Water Chlorine Residue mg/l: NA

Sample Site: Kelly Spring 33.9991 Lat -116.9752 Long

RESULTS

Total Coliform

Presence = 344.1 mpn/100ml

Method 92238

E Coli

Absence = < 1 mpn/100ml

Date Start: 3-11-19

Date Completed: 3-12-19

Date Reported: 3-14-19

Linda L. Webster

Lab supervisor

Time Start: 230PM

Time Completed: 200PM

Lab No. M32136

Reported: 3-14-19

Client: Personal privacy Ex. (b)

Received: 3-11-19 225PM

Sample: Water

Identification: Site Code: 1000 Sampled by: KK

DateTime: 3-11-19 914AM Type of sample: Water Chlorine Residue mg/l: NA

Sample Site: Warren Crossing 33.0030 Lat -117.0057 Long

RESULTS

Total Coliform

Presence = 791.5 mpn/100ml

Method 9223B

E Coli

Presence = 38.9 mpn/100ml

Date Start: 3-11-19

Date Completed: 3-12-19

Examine K Week to

Date Reported: 3-14-19

Time Start: 230PM

Time Completed: 200PM

Linda L. Webster Lab supervisor



November 5, 2018

Andrew Wheeler
Acting Administrator of the Environmental Protection Agency
Environmental Protection Agency
Mail Code: 1101A
Office of the Administrator
1200 Pennsylvania Avenue, N.W.
Washington, D.C. 20460
Wheeler.Andrew@epa.gov

David W. Gibson
Executive Officer
California Regional Water Quality Control Board
San Diego Region
2375 Northside Drive, Suite 100
San Diego, California 92108
David.Gibson@waterboards.ca.gov

Mike Stoker Regional Administrator of the Environmental Protection Agency, Region 9 75 Hawthorne Street San Francisco, California 94105 r9.info@epa.gov

Eileen Sobeck, Executive Director California State Water Resources Control Board P.O. Box 100 Sacramento, California 95812 Eileen.Sobeck@waterboards.ca.gov

Tina White City Manager City of Poway 13325 Civic Center Drive Poway, California 92064

Sent via certified mail

60-day Notice to Sue the City of Poway under the Clean Water Act and the Endangered Species Act

I INTRODUCTION

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- استو ز gallions of water at one time. created a 62-acre lake over a blue-line seasonal stream called Warren Creek. This reservoir, now dam in Warren Canyon near the base of Mount Woodson. The dam, 160 feet high and 1,060 feet wid known as Lake Poway, serves as a local emergency water supply and is able to store over one billion the former Poway Municipal Water District became part of the City structure, including its earthen When the City of Poway incorporated as a general law city in San Diego County in December 1980.
- N reservoir has been designed to capture millions of gallons of storm runoff as well as natural spring water emanating from both Mount Woodson and Rock Haven cornerstone, the other coming from the Rock Haven Conneistone. From the merged streams, the from two seasonal streams that merge into one, with one coming from the Mount Woodson third of the reservoir's capacity during wetter years. This natural runoff is funneled into the reservoir While most of the water from Lake Poway is usually imported by the San Diego County Water Authority and piped in and out of the reservoir on a regular basis, natural runoff can fill almost one
- w previously used for water storage until eventually the reservoir becomes completely filled with and flood control — also will decline and eventually will be lost sediment. As water storage is lost, the beneficial uses that depend on storage - such as water supply sustainable management, sediment deposits will gradually displace the volume area that was through these streams and into Lake Poway. Unfortunately, over a long period of time and without inevitably, with this storm and spring water, sediment along with other pollutants are transported
- The City of Poway has a system of unpaved roads above Lake Poway that serve as hiking trails

Br.

pumped back into the reservoir for sknage. via a public water supply intake structure for further partification into drinking water. Also, some of this purified water is Once in Lake Poway, the water from the reservoir is pulled into the Lester J. Bergland Water Treatment Plant ATTACAMENT A

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Many of these culvert crossings failed during the winter storms of 2017, including at least two

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There are also about 20 private residences in Warren Carryon within the City of Poway and upstream

fill material in the seasonal and cphemoral tributaries above Lake Poway

of Lake Poway, and a number of these private residences also contain unpermitted and unauthorized

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drain directly into Lake Poway

Over the past 25 years, the City of Powny has never obtained the proper Clean Water Act permits and

United States, as well as at least eight more cross drainage culverts along the unpaved road that also

creeks above Lake Poway and one unpermitted wooden footbridge across waters of the state and

at least four unpermitted and unauthorized culvert-with-dirt-backfull stream crossings over natural

leading to the famous Mount Woodson peak and the Potato Chip Rock landmark. These trails contain

individual water quality certifications for the placement, maintenance, and replacement of divelged an

pollutants placed within Warren Creek

culvert-with-dirt backfill stream crossings and other illicit discharges/connections and mobile

from mobile pollutants

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A significant portion of the polluted water discharged into Lake Poway was non-storm spring water

unreasonable amount of sedimentation pollution into Lake Poway caused by anthropogenic sources

unpermitted and unnothorized colvert crossings owned by the City of Powny, which resulted in an

that flowed during periods of dry weather, collecting sedimentation pollution from and through privi

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After the winter storms of 2017, the City of Powey again conducted unauthorized and unpermitted

residences' point sources and the City's point sources before flowing into the reservoir.

backfull stream crossings that have not been engineered to withstand storm surges of an expected an

dredging and filling activities in waters of the United States including rebuilding culvert-with-dire-

structures, dirt fill, and dredged materials were placed in the historical stream), including the efforts

conditions because the rebuilding efforts were not fully described in the emergency permit (other

crossing on April 17-20, 2017; however, the City has not met the generalized emergency permit

10. The City has used a generalized emergency Department of the Army permit to repair its main tributar

50-year storm event

ATTACEMENT A



occurred during non-emergency storm conditions (winter rains practically ceased by the end of February 2017), and the reconstruction occurred in proximity to the City's public water supply intake within the reservoir (the emergency permit cannot be used in this type of situation).

- 11. These 2017 rebuilding efforts in the Lake Poway area took place when Poway's City Council suspended environmental review of its projects after it declared a weather "state of emergency" in a year with a near average amount of rainfall. After the heavy rains of January and February 2017, it hardly rained at all in March and April 2017. Inexplicably, this "state of emergency" was not lifted until March of 2018. Under this shroud, the City of Poway conducted all of its rebuilding activities in the Lake Poway area and in Waters of the United States during non-emergency circumstances and during the dry spring, summer, and fall months.
- 12. The City of Poway does <u>not</u> permit private landowners to construct culvert with earth-fill road crossings over blue-line streams on private property in Warren Canyon; yet, in hypocritical fashion, the City has recently built colvert with earth-fill road crossings in proximity to Lake Poway, a public water supply that intakes storm water and non-storm water from the local mountains and that contains a public water supply intake into a drinking water purification plant.
- Lake Poway is not an enclosed conveyance system or a terminal reservoir.
- 14. Lake Poway is not a strictly intrastate body of water. It is composed of navigable-in-fact waters that are hydrologically connected to the Pacific Ocean which is 17 miles away; moreover, the waters of Lake Poway have been used in interstate commerce.
 - a. Foth-CLE Engineering Group, a Wisconsin based company, was paid to use its vessel and attached equipment to navigate and survey Lake Poway in 2018 by the City of Poway, à California municipal corporation).
 - The reservoir is and could be used by interstate or foreign travelers for recreational or other purposes; and
 - Fish could be taken from the reservoir and sold in interstate commerce.
- 15. The reservoir has a high downstream hazard risk of flooding according to the state of California because of the seasonal streams feeding the reservoir. Water flooded over the dam in 1997, which was

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naturally farmeled into Lake Hodges and into the Pacific Ocean below

- 16. The area below the dam was almost inundated in 2017. Had it rained another inch during the first 2017) flooding in 2017 by removing some of the water from the reservoir during the final days of February week of March 2017, water would have spilled over the dam (Poway was able to successfully preven
- 17. Water also naturally seeps undemeath the dam, flows out of an outlet pape, and spills over a spillway during times of flooding. This water flows down into the San Dieguito River and thence the Pacific Ocean
- 18. The City of Poway has a license to use a fixed amount of the water from Warren Creek, which is a reservoir which is not authorized for appropriation under its license may be released near as practicable to the bottom of the natural stream channel in order that water entering the succeeding year. The City of Poway must maintain an outlet pipe of adequate capacity in the dam as feet and it can only be collected by the reservoir between November 1 of each year to May 31 of the tributary to the San Dieguito River and thence the Pacific Ocean. The amount cannot exceed \$58 acre
- 19. The City of Poway also has a water nights agreement with the City of San Diego, in which the City of San Diego owns half the waters nights of Warren Creek above Lake Poway
- 20. The historical record shows that approximately 1000 acre feet of water from Warren Creek has filled Lake Powey in a given season (e.g., the 1979-1980 season) and that well over 100,000 gallons of water a minute can surge through the main tributary during a 50-year storm event
- 21. During the last 25 years, the City of Poway has mismanaged its local water supplies by underreporting feeding Lake Powey, and the City of Powey does not want to pay the City of San Diego back for its due to the fact that the City of San Diego owns half of the water rights coming from the inbutary the amount of natural runoff that flows into Lake Poway during wetter years. This underreporting is fair share of water armually
- 22. Poway's City Engineer did not do his job of overseeing the work of Poway's Public Works Director tributary and into Lake Poway and designed a dirt-backfull stream crossing that will not withstand Make Obermiller, who did not account for the amount of water that can flow through the main

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storm surges and the amount of water coming through the main tribulary during wetter years.

- 23. As of August 23, 2018, the City of Powsy is currently looking to hire a new City Engineer
- 24. By law, the City of Poway should have constructed a concrete water measuring structure / engineers Diego and to meet State and federal water quality requirements fulfill its obligations under the 1968 Water Rights Agreement between Poway and the City of San bridge combination at the location of its current dirt-backfull stream crossing over the main tributary
- A 50-year storm event would result in extreme flooding over Poway dam
- 26. The amount of water coming through the main tributary of Warren Cariyon apstream of Lake Poway placed and would lead to another blowout during a 50-year storm event would not fit within the recently built culvert crossing as it is currently
- 27. Considerably less water than a 50-year storm event would cause a blowout of the main tributary culvert crossing because the City realigned the stream from its historical placement and placed diri-fil appropriate Clean Water Act permits and dredged materials in the historical part of the stream bed in 2017 and in previous years without the
- 28 The effluent coming off the City of Poway's rebuilt earthen crossings, as well as the placement of cause pollution in Lake Poway seasonally during most rainy seasons, which will lessen its storage and flood-control capacity over time mobile pollulants in Warren Creek by private third party landowners in Warren Canyon, have and wil
- 29. The City of Poway has failed to obtain individualized water quality certifications from the State of Poway California and the San Diego Water Board for its stream crossings in several locations above Lake
- 30. In 2017, Lake Poway had a higher average numeric turbidity level than in 2016 and, unlike other on measurements taken from the public water supply intake. The higher turbidity levels were caused years, had a higher average numeric turbidity level than allowed by state law for drinking water, base non-storm water that flowed into the reservoir by sedimentation from the proximal blown-out stream crossings and the resulting polluted storm and
- 31. Under the Clean Water Act, the City of Powey is responsible for ensuring that pollution from its point

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sources do not lead to the loss of the beneficial uses of Lake Powny. However, the City has not obtained the proper Clean Water Act permits and individual water quality certifications for its maintenance and construction activities in the Lake Powny area, and it has not been adhering to the NDPES permit that it has procured for its storm and non-storm water point-source discharges in its main stormwater sewer system (MS4) feeding the reservoir by implementing effective controls to reduce future pollution.

- 32. The City of Poway has done nothing to reduce or eliminate past or future non-storm water discharges of pollutants into Lake Poway. In 2017, a significant amount of non-storm water—i.e. natural spring water flowing from both Mount Woodson and Rock Haven that is funneled into Warren Creek—became contaminated with mobile pollutants including sedimentation from failed culvert with dirt-backfill crossings owned by the City of Poway as well as several private residences of Warren Canyon.
- 33. This polluted storm and non-storm water was discharged through a major outfall point source (the wooden footbridge over Boulder Bay) and entered Lake Poway the receiving body of water and waters of the United States at pollution levels far above the City's NPDES non-storm water action levels (NALs) for turbidity and other pollutants.
- 34. History will repeat itself because the City of Poway and some private landowners in Warren Canyon have replaced unpermitted fill and dredged materials – mobile pollutants – back in the main tributary feeding Lake Poway.
- 35. The non-storm spring water flows into Lake Poway from two sources: Rock Haven Spring, which is on City-owned land (APN: 278-210-1100) and Kelly Spring, which is on land that Complainant owns (APN: 278-210-1800). Before the water from Kelly Spring discharges into the City of Poway's MS4, through a major outfall point source, and into the receiving water (Lake Poway), the spring water has become and becomes contaminated with sedimentation pollution and other mobile pollutants from different point-source locations in the privately owned portion of Warren Canyon.
- 36. Unless a non-storm water discharge is identified as a discharge authorized by a separate NPDES permit, the San Diego Regional MS4 permit requires the City of Poway to reduce or climinate non-

ATTACHMENT A

priorities and resources allow. 2013 MS4 Pennit, Provision E.2.a.(7). storm water discharges from springs and rising ground waters into its MS4 where feasible and

- 37. This reduction or elimination of a non-storm water discharge from a spring is required to be save precious water resources policy goal of this requirement is to ensure that the municipality is doing all it can to preserve and non-storm water is contaminated from pollutants before being discharged into the City's MS4. The implemented not only if the non-storm water discharge is uncontaminated but even more so when the
- 38. From 1972 when Poway dam was built to today, over 20,000 toas of sediment have entered Lake Poway from Warren Crock
- 39. Complainant has proposed a feasible way to considerably reduce the non-starm water discharges spring water runoff. permit requirement, Provision E.2.a.(7) by filtering out pollutants from surface water, create new eagineer. The City of Poway refuses to undertake such projects, which would fulfill its Regional MSA the City's MS4 and Lake Poway - i.e. the spring water and nising ground waters emanating from both wetlands, and recharge underground aquifers through increased capture and infiltration of lowflow APN: 278-210-1800 in the City of Poway that have been designed by a qualified surface water Rock Havea and Mount Woodson - through wetland repairs and stream rehabilitation projects on
- 40. The City of Powey has failed to address and effectively prohibit non-storm water pollution through permits and requirements area feeding Lake Powny - i.e. Warren Canyon - into compliance with the various Clean Water Act implementing a required enforcement program designed to bring private landowners in the watershed
- 41. MS4 operators like the City of Poway cannot passively receive and discharge pollutants from third parties, whether in storm water or non-storm water discharges
- 42. The City's discharges and third-party discharges from its MS4 have caused, have contributed to, and Lake Poway at unreasonable and actionable levels in violation of its NPDES permit have threatened to cause sedimentation pollution, as well as excess turbidity and color pollution, in
- ξů In addition to reducing future storm water pollution, the City of Poway must reduce future non-storm

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water discharges into its MS4 and into Lake Poway through effective law enforcement and through effective controls and other best management practices (BMPs) to fulfill its current Regional MS4 permit; otherwise, it must ensure that separate NPDES permits are obtained for the non-storm water discharges to its MS4 and to Lake Poway that will occur on a seasonal basis.

- 44. The City of Poway must implement effective controls and BMPs to <u>segregate</u> perennial flows of spring water from non-point source and point-source pollutants before they are discharged into Warren Creek and into the City's MS4.
- 45. The non-storm spring water emanating from Mount Woodson is first discharged into the City-owned MS4 starting at APN: 278-290-1000 and continuing on into APN: 278-280-2300, which contains the City-owned point-source culvert crossing over Warren Creek. The non-storm spring water is then discharged through a major outfall point source that drains over 1000 acres (a wooden footbridge single conveyance in Warren Creek which straddles APN: 278-280-2300 and APNs: 2782810100 and 7601590500 (14692 and 14656 Lake Poway Road, Poway, California 92064, Latitude 33.0039, Longitude -117.0069) 46. The wooden footbridge is a major outfall as defined by the federal regulations that discharges into adjacent wetlands and the surface waters of the Boulder Bay area of Lake Poway. The pictures below show the wooden footbridge in 2005, 2009, and 2018.

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storm water and non-storm water discharges and sediment plumes into Lake Poway.	pollution control technologies and other best management practices to prevent past and future impure	quality improvement plans for the watershed area above Lake Poway and has failed to implement	47. The City has failed to prepare and implement a storm water pollution prevention plan and water	considerable amount of pollutants from point sources and non-point sources on private property.	46. By the time the non-storm spring water is discharged into the City-owned MS4, it has gathered a

- 48. The City has failed to identify the major outfall in its MS4 immediately above Lake Poway (the shown to the San Diego Water Board wet and dry weather monitoring and reporting requirements that must be done on an annual basis and wooden footbridge single conveyance over Warren Creek and Boulder Bay) and the accompanying
- The City of Powery has finited to report its non-storm water discharges, its lack of best management current Regional MS4 permit practices, and the resulting prohibited and uncontrolled pollution into Lake Poway in its Report of Waste Discharge required for its Regional MIS4 permit renewal and in other reports as required by its
- 50. The City of Powey has identified through the public record the fact that spring water from Rock from Warren Creek contributed to sedimentation pollution into Lake Poway in 2017. Haven flows in its MS4 and reaches Lake Poway and that storm water and non-storm water flows
- 51. The City of Poway has acknowledged in the public record that MS4 pollution has nearly buried its above the waters of Lake Poway wooden footbridge in Boulder Bay with course sediment, which only a few years ago was floating
- Improvement Plan and then implement those controls. 2013 MS4 Pennit, Provision E.2.a.(6). implemented for the category of non-storm water discharges as part of the Water Quality City of Powny to either prohibit the non-storm water discharges or propose controls to be To rectify the degradation of beneficial uses of Lake Poway, the Regional MS4 permit requires the
- 53. One of the policy goals of the Clean Water Act is to capture stormwater and non-storm water portion of the City of Poway that lies within the San Dieguito watershed, the most effective method o efficiently and effectively after storm surges to lessen the City's reliance on imported water. For the

water supply, which are federally and state mandated Poway refuses to undertake such projects as mitigation for its harms to the environment and public accomplishing this goal is through stream rehabilitation projects at the source of the water. The City

- Moreover, following the destruction of its trail system into waters of the United States and of equivalent type and quality at the appropriate mitigation ratio impacts to waters of the state and United States through the actual preservation of additional Habitat Conservation Plan's mitigation requirements by properly accounting for its developmental reconstruction of its new earthen stream crossings, the City of Poway has failed to adhere to its biological resources including restoration and preservation of additional stream and wetland acreage
- 55. The City of Poway does not value wedlands with its current policies and procedures; rather, "[The Cit Lake Poway, at 33 n.4, June 7, 2018 comply with any part of the Clean Water Act. Foth-CLE Engineering Croup, Geophysical Survey of is trying to remove the "water of the U.S." classification" for Lake Poway so that it does not have to
- 56. On top of all that, the City of Poway has constructed and maintained unauthorized hiking trails Ħ Clean Water Act and the Endangered Species Act as the unpermitted trails cross a blue-line stream maintenance activities on private property, the City has violated state trespassing laws as well as the feeding Lake Poway and contain endangered plant and animal species on the trails and in the vicinity Complainant's private property in the watershed area above Lake Poway. Through its construction a PARTIE

A. Complainan

- 57. Complainent is a texpaying critizen of Poway and owns 43 acres of key watershed land that contain 210-0300, and 278-210-0400) streams and springs feeding Lake Poway (APNs 278-210-1800, 278-210-3000, 278-210-2900, 278-
- Since November 2016, Complainant has enjoyed the waters of Lake Poway
- 59. As a recreational user of the City's reservoir and the surrounding natural environment, he has laked around, boated in, and fished in the Boulder Bay area and other areas of Lake Poway with his family and hopes to continue to do so in the future without the seasonal intermittent plumes of sedimentation

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and other pollutants gradually filling in Lake Poway over time.

- 60. He has a passion for protecting wetlands including the wetlands in, adjacent to, and above Lake Poway and enhancing the human use and enjoyment of those natural resources
- It is Complainant's position that Lake Poway is Waters of the United States as defined by federal law plurality opinion in Rapanos v. United States, 547 U.S. 715 (2006). Pennit) is enforceable in the sub-watershed area above Lake Poway, even under Justice Scalia's and that the City of Powey's Regional storm water and non-storm water permit (2013 Regional MS4
- As owner of the spring (Kelly Spring near the base of Mount Woodson on APN: 278-210-1800) that improve the water quality of Lake Poway and the San Dieguito watershed in general rehabilitation projects that will create new wetlands and recharge the underground aquificrs and will solution to reduce and segregate the non-storm water from the City's MS4 through stream Complainant wants to work with the City of Powey and the San Diego Water Board to find the best contributes the largest amount of non-storm spring water into Lake Powny on a seasonable basis,
- 63. The water from Kelly Spring eventually is discharged into the city-owned MS4 at APN: 278-290into Lake Powery private landowners before being discharged as contaminated non-storm water into the City's MS4 as point-source culvert crossings and other illegal connections and discharges placed in Warren Creek by Lake Poway at APN: 278-280-2300, and has become polluted in the past from various unpermitted 1000, the City of Powery's open space resource management area, and through a major outfall and in

B. Complainer

- 64. The City of Powsy is a California General Law City and municipal corporation, duly organized and existing by virtue of the laws of the State of California and the charter of the City of Poway
- 65. The City of Poway operates a modern water collection, treatment, and distribution system.
- 66. The City of Powny owns Lake Powny, which is one source of the City's thinking water supply, and 0100; APN: 278-290-1000; and APN: 278-210-1100 owns portions of the area upstream of Lake Poway including APNs 278-280-2300; APN 278-281-
- 67. The City's purcel, APN: 278-210-1100, contains locally known Rock Haven Spring, a significant

Poway on APN: 278-290-1000. Complainant's private property (APN: 278-210-1800) before reentering the City's MS4 by Lake source of non-storm spring water that flows first through the City of Poway's MS4 and then through

- 68. The City's parcels contain point sources and non-point sources that have caused and will cause sedimentation pollution into Lake Poway
- 69. By law, the City of Poway also has enforcement authority over the residents of Warren Canyon and creek is interrelated and becomes part of a municipal conveyance system downstream their point sources that are placed within their privately owned portions of Warren Creek because the
- City-owned Lake Poway is a year-round navigable-in-fact waterbody and is considered waters of the mandated water releases from an outlet pipe has reached and will reach the Pacific Ocean 17 miles away during a 25-year storm event and/or after United States because it has been used in interstate commerce and because water from the reservoir
- 71. The City of Poway is seeking to devalue the wetlands that Complainant owns above Lake Poway by opinion in Rapanos v. United States, 547 U.S. 715 (2006) a "terminal reservoir" and not Waters of the United States according to Justice Scalia's phrality disingenoously arguing that Warren Creek is merely an "ephemeral" inbutary and that Lake Poway is

III. STATUTORY BACKGROUND

- 72. The federal Clean Water Act (CWA) (33 U.S.C. § 1251 et seq.) of 1972 is the basic federal law that pollutants into waters of the United States. through prevention, reduction, and elimination of pollution. The CWA applies to discharges of CWA is to restore and maintain the chemical, physical, and biological integrity of the nation's waters addresses surface water quality control and protection of beneficial uses of water. The objective of the
- 73. The term waters of the United States means: All waters which are currently used, or were used in the sloughs, praine potholes, wet meadows, playa lakes, or natural ponds, the use, degradation or past, or may be susceptible to use in interstate or foreign commerce, including all waters which are such as intrastate lakes, rivers, streams (including intermittent streams), modifiats, sandifiats, wetlands subject to the ebb and flow of tide; all interstate waters including interstate wetlands; all other waters

destruction of which could affect interstate or foreign commerce including any such waters: a. which are could be used by interstate or foreign travelers for recreational or other purposes; or b. from which fish or shellfish are or could be taken and sold in interstate or foreign commerce; or c. which are used or could be used for industrial purposes by industries in interstate commerce. 4. All impoundments of waters otherwise defined as waters of the United States under this definition; 5. Tributaries of waters identified in paragraphs (1) through (4) or this section; 6. The territorial sea; 7. Wetlands adjacent to waters. 40 C.F.R. § 230.3(s) (1986, 1988).

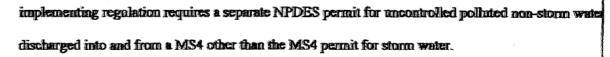
- 74. Section 301 of the CWA, 33 U.S.C. § 1311(a), prohibits the discharge of any pollutant in waters of the United States by any person except in compliance with a National Pollutant Elimination System (NPDES) permit issued under Section 402 of the CWA, 33 U.S.C. § 1342, or a Department of the Army Permit for dredged or fill material at specified sites issued under Section 404 of the CWA, 33 U.S.C. § 1344.
- 75. Section 502(5) of the CWA, 33 U.S.C. § 1362(5), defines "person" to mean an individual, corporation, partnership, association, State, municipality, commission, or political subdivision of a State, or any interstate body.
- 76. Section 502(6) of the CWA, 33 U.S.C. § 1362(6), defines "pollutant" to mean dredged soil, solid waste, incinerator residue, sewage, garbage, sewage sludge, munitions, chemical wastes, biological material, radioactive materials, heat, wrecked or discarded equipment, rock, sand, cellar dirt and industrial, municipal, and agricultural waste discharged into water.
- 77. Section 502(12)(A) of the CWA, 33 U.S.C. § 1362(12)(A), defines the term "discharge of pollutants" to mean any addition of any pollutant to navigable waters from any point source.
- 78. Section 502(7) of the CWA, 33 U.S.C. § 1362(7), defines "navigable waters" as "the waters of the United States, including territorial seas." EPA's implementing regulations at 40 C.F.R. § 122.2 (February 7, 2018) further define "waters of the United States" to include, inter alia, adjacent lakes and tributaries adjacent to navigable waters. "A water that otherwise qualifies as a tributary under this definition does not lose its status as a tributary if, for any length, there are one or more constructed breaks (such as bridges, culverts, pipes, or dams), or one or more natural breaks (such as wetlands

along the run of a stream, debris piles, boulder fields, or a stream that flows underground) so long as a bed and banks and an ordinary high water make can be identified upstream of the break." The Supreme Court has also opined that a wetland must have an impact on the quality of a downstream navigable-in-fact water to fall under the jurisdiction of the CWA (known as the "significant nexus" test). Rapanos v. U.S., 547 U.S. 715, 759 (2006) (Kennedy, J., concurring); see In re Smith Farm Enterprises, LLC, CWA Appeal No. 08-02 (EAB, March 16, 2011), slip op. at 28-30. Justice Scalia in his plurality opinion opined that the wetlands in question must in fact be adjacent to waters of the United States. Rapanos, 547 U.S. at 740.

- 79. Section 502(14) of the CWA, 33 U.S.C. § 1362(14), defines "point source" to mean any discernible, confined, and discrete conveyance, including but not limited to any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, or vessel, or other floating craft, from which pollutants are or may be discharged.
- 80. "The stormwater discharges came from point sources, because they flowed out of artificial 'pipe[s],' 'ditche[es],' and 'channel[s],' 33 U.S.C. § 1362(14)." Decker v. Northwest Environmental Defense

 Center, 568 U.S. 597, 623 (Scalia, J., concurring in part and dissenting in part).
- 81. Water from a spring also discharges from a point source by definition in the City of Poway's Regional MS4 Permit.
- 82. A point source also includes the dredged and fill materials placed around the culverts inside waters of the United States by machines such as back hoes. "[T]he definition of a point source is to be broadly interpreted," and courts have uniformly held that earth-moving equipment, such as dump trucks, bulldozers, excavators, plowing equipment, back hoes, and related heavy machinery, are all point sources. See, e.g., Peconic Baykeeper, Inc. v. Suffolk County, 600 F.3d 180, 188 (2d Cir. 2010); Concerned Area Residents for the Environment v. Southview Farm, 34 F.3d 114, 118 (2d Cir. 1994); Avoyelles Sportmen's League v. Marsh, 715 F.2d 897, 922 (5th Cir. 1983).
- 83. Section 402(p) of the CWA, 33 U.S.C. § 1342(p), requires NPDES permits for certain municipal storm water discharges. EPA promulgated regulations at 40 C.F.R. § 122.26 (December 21, 2015) to implement the storm water permit provisions of Section 402(p).

- 84. "Storm Water" is defined as "storm water runoff, snow melt runoff, and surface runoff and drainage."
 40 C.F.R. § 122.26(b)(13).
- 85. Non-storm water discharge is any discharge into the MS4 or from the MS4 into a receiving water that is not composed entirely of storm water.
- 86. NPDES permits are required for discharges of storm water from a "municipal separate storm sewer system (MS4) [which] means a conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains)" owned by a city and designed for conveying storm water. 40 C.F.R. § 122.26(b)(8). An MS4 conveys only untreated storm water. See 40 C.F.R. § 122.26(a)(7).
- 87. Generally, the CWA requires point source discharges, including dischargers of sturm water associated with maintenance or construction activity, to comply strictly with water quality standards. 33 U.S.C. § 1311(b)(1)(C).
- 88. CWA section 402(p) requires the EPA or authorized state to issue NPDES permits for storm water discharges from MS4s to waters of the United States. CWA section 402(p)(3)(ii) requires that NPDES permits for storm water discharges from MS4s to "require controls to reduce the discharge of pollutants [in storm water] to the maximum extent practicable [MEP], including management practices, control techniques and system, design and engineering methods, and such other provisions as the Administrator or State determines appropriate for the control of such pollutants." 33 U.S.C. § 1342(p).
- 89. Section 402(b) of the CWA, 33 U.S.C. § 1342(b) authorizes States with an EPA-approved NPDES program to issue NPDES permits. The State of California, through its State Water Resources Control Board (SWRCB) and Regional Water Boards, is a state approved under section 402(b) of the CWA to administer the NPDES program, including the issuance of storm water permits within California.
- 90. Under 40 CFR § 122.26(b)(2), an illicit discharge is defined as "any discharge to a municipal separate storm sewer that is not composed entirely of storm water except discharges pursuant to a NPDES permit (other than the NDPES permit for discharges from the municipal separate storm sewer). This



- 91. As required by Section 402(p)(3)(B)(ii) of the Clean Water Act, cities are required to "effectively prohibit non-storm water discharges into the MS4 and watercourses, except where such discharges" are covered by a separate NPDES permit or fall within one of thirteen categories of flows that are conditionally exempted from the discharge prohibition such as natural flow from springs and rising ground waters. These non-storm water flows may be exempted so long as: (i) they are not a source of pollutants to receiving waters and (ii) they do not violate antidegradation policies.
- 92. "[M]amicipalities will not be held responsible for prohibiting some specific components of discharges or flows . . . through their municipal separate storm sewer system, even though such components may be considered non-storm water discharges, unless such discharges are specifically identified on a case by-case basis as needing to be addressed." 55 Fed. Reg. 47995 (16 November 1990).
- 93. "EPA disagrees that [water from springs and rising ground water] will not pose, in every case, significant environmental problems." 55 Fed. Reg. 48037 (16 November 1990).
- 94. 40 CFR § 122.26(d)(2)(iv)(B)(1) states that the proposed management program required in a MS4 permit shall include: An enforcement program "to prevent illicit discharges to the municipal separate storm sewer system."
- 95. The program description shall address the following categories of non-storm water discharges or flows only where such discharges are identified by the municipality as sources of pollutants to waters of the United States: ... rising ground waters, ... springs 55 Fed. Reg. 48037 (16 November 1990).
- 96. "The CWA prohibits the point source discharge of non-storm water not subject to an NPDES permit through municipal separate storm sewers to waters of the United States." 55 Fed. Reg. 47996 (16 November 1990).
- 97. Section 404(a) of the Clean Water Act, 33 U.S.C. § 1344(a), establishes an Army Corps-administered permit program for the discharge of dredged or fill material at specified sites into waters of the United States.

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g 99. Section 404(a) of the CWA, 33 U.S.C. § 1344(a), prohibits the "discharge of a pollulator" into waters of the United States, except in compliance with a permit issued pursuant to the provisions in the Act The Act broadly defines the term "pollutant" to include dredged spoil, rock, sand, and waste

discharged into water. 33 U.S.C. § 1362(6).

- 101 and "site development fills for recreational, industrial, commercial, residential, or other uses." 33 United States," including, but not limited to, infrastructure construction fill, canseway or road fills, C.F.R. § 323.2(f) (December 30, 2008). The "discharge of fall material" is defined as "the addition of fall material into waters of the
- ន bottom elevation of a waterbody. 33 U.S.C. § 323.2(e)(1). "Fill material" refers to material that replaces aquatic area with dry land or changing the
- ន States." 33 C.F.R. § 323.2(c). "Dredged material" means "material that is excavated or dredged from waters of the United
- Ž for development, water resource projects, and infrastructure development (such as unpaved roads) tha are placed in waters of the United States Activities in waters of the U.S. that are regulated under the Section 404 program include fills
- 201 a state, regional, or nationwide basis for any entegory of activities involving discharges of dredged or fill material" (both known as a "Section 404 Permit"). 33 U.S.C. § 1344(e)(1). The Army Corps of Engineers has authority to issue individual permits or "general permits or
- ğ nationwide permits, which is a general permit that authorizes activities across the country, unless such as linear transportation projects, residential development, commercial and industrial revoked by a district or division commander. Nationwide pennits authorize a wide variety of activities permits to authorize activities that have minimal individual and countative adverse covincemental effects. General permits can be issued for a period of no more than 5 years. USACE can issue Under CWA Section 404(e), the Army Corps of Engineers (USACE) can issue general

developments, utility lines, road crossings, bank stabilization activities, wetland and stream restoration activities, and certain maintenance activities.

- 107. Regional pennits are a type of general pennit issued by a Division or District Engineer that may require case-by-case reporting and acknowledgement. 33 C.F.R. § 325.5(c)(1) (August 30, 2018)
- 108. An individual or standard permit is required when a project cannot meet all of the conditions of a general permit and has more than minimal individual or cumulative impacts. These types of projects are evaluated using additional environmental criteria and involve a more comprehensive public interest review. 33 C.F.R. § 325.5(b) (October 25, 2018).
- 109. Section 401(a)(1) of the Clean Water Act, 33 U.S.C. § 1341(a)(1), requires that any application to the Army Corps for a Section 404 permit must include a "certification from the State in which the discharge originated or will originate . . . that any . . . discharge will comply with [other sections of the Clean Water Act]."
- 110. Before the Army Corps can issue a Section 404 permit, the state must certify the project is compliant with local Basin Plans and water quality objectives. 33 U.S.C. § 1341(a)(1).
- This certification from the state is known as a Section 401 Certification.
- 112. Section 404 pennits rely upon, and are required to, incorporate any conditions imposed by a state's water quality certification. 33 U.S.C. § 1341(a)(1).
- 113. The Endangered Species Act (ESA), 16 U.S.C. § 1531 et seq.) was passed in 1973 to provide a legal mechanism for the conservation of endangered and threatened species and the ecosystems upon which they depend. With limited exceptions, the ESA places restrictions on a range of activities involving endangered and threatened animals and plants to help ensure their continued survival. With limited exceptions, the prohibited activities may not be carried out unless authorized by a permit from the U.S. Fish and Wildlife Service. Sections 7 and 9 of the ESA allow "incidental" takes of threatened and endangered species, but only in accordance with a permit and a corresponding Habitat Conservation Plan.
- 114. It is unlawful to commit, to attempt to commit, to cause to be committed or to solicit another to commit the following: Remove, cut, dig up, damage, or destroy a federally listed endangered plant



on private property in violation of any law or regulation of any state including a state criminal trespectaw. 16 U.S.C. § 1538(a)(2)(B).

- With respect to any endangered species of wildlife, it is unlawful to take any such species within the United States without a permit. 16 U.S.C. § 1538(a)(1)(B).
- The Clean Water Act allows for citizen enforcement of the Clean Water Act against a municipality which is alleged to be in violation of an effluent standard or limitation under the Act or with an order issued by the Administrator or State with respect to a standard or limitation. Civil penalties, declaratory relief, injunctive relief, and litigation costs may be awarded. All violations of separate Clean Water Act requirements or permit conditions are separately subject to penalty assessment on each and every day such violations continue. For the purposes of Section 402 of the CWA, each discharge in excess of an NPDES limitation constitutes a separate violation. For purposes of Section 404 of the CWA, a day of violation may either be a day that actual discharge or dredged or fill material takes place, or may also include any day that such dredged or fill material is allowed to remain in waters or wetlands. Civil liability under the CWA is not limited to intentional violations. 33 U.S.C. § 1319; 33 U.S.C. § 1365.
- A private cause of action is available for citizens under 33 U.S.C. § 1365 to file a civil action against any person "who is alleged to be in violation of ... an effluent standard or limitation . .." Id. at § 1365(a)(1). Section 1365(f) defines "effluent standard or limitation" as "an unlawful act under subsection (a) of section 1311, . . . certification under section 1341, . . . and a permit or condition issued under section 1342 of this title." Id. at § 1365(f).
- 118. A term or condition in a permit issued under CWA §§ 401, 402, or 404 is an "effluent standard or limitation" that can be enforced by way of a citizen suit under 33 U.S.C. § 1365.
- 119. The Endangered Species Act allows for citizen enforcement of the ESA to enjoin any person who is alleged to be in violation of any provision of the ESA. Injunctive relief and costs of litigation may be ordered by a federal judge. 16 U.S.C. § 1540(g).



IV. City of Powny's NPDES Permit Requirements

- 120. The San Diego Water Board issued to the City of Poway the National Pollutant Discharge Elimination System ("NPDES") Permit and Waste Discharge Requirements, No. R9-2013-0001, as amended by Order No. R9-2015-0001 and R9-2015-0100, NPDES No. CAS0109266 (the "2013 MS4 Permit").
- 121. Permit Provision A prohibits unauthorized discharges from the City of Poway's properties, facilities, activities, MS4s and other rights of way, including:
 - a. Provision A. I.a provides: "Discharges from MS4s in a manner causing, or threatening to cause, a condition of pollution, contamination, or misance in receiving waters of the state are prohibited."
 - i. The term "pollution" means an alteration of the quality of the waters of the state by waste to a degree which unreasonably affects either of the following: the waters for beneficial uses; or facilities which serve those beneficial uses. "Beneficial uses" of the waters of the state that may be protected against quality degradation include, but are not limited to, domestic, municipal, agricultural and industrial supply; power generation; recreation; aesthetic enjoyment; navigation; and preservation and enhancement of fish, wildlife, and other aquatic resources or preserves.
 - ii. The term "receiving waters" includes creeks, streams, rivers, lakes, wetlands, reservoirs, estuaries, bays, and the ocean.
 - iii. "Discharges" means addition of pollutants to navigable waters from any point source.
 - b. Provision A.1.b provides: "Non-storm water discharges into MS4s are to be effectively prohibited, through the implementation of Provision E.2, unless such discharges are anthorized by a separate NPDES permit."
 - c. Provision A.1.c further provides: "Discharges from MS4s are subject to all waste discharge prohibitions in the Besin Plan."
 - d. Provision A.2.a provides: "Discharges from MS4s must not cause or contribute to the violation of water quality standards in any receiving waters."





- i. Attachment F provides: "The receiving water limitations included in this Order consist of all applicable numeric or narrative water quality objects or criteria, for receiving waters as contained in the Basin Plan . . . or in federal regulations."
- e. Provision A.4 provides: "Each Copermittee must achieve compliance with Provisions A.1.a, A.1.c and A.2.a through timely implementation of control measures."
 - Attachment F provides: "[C]ompliance with the Provision A.4 does not shield a
 Copermittee who may have violated Provision A.1a, A.1.c, or A.2.a from an
 enforcement action."
 - Commail v. County of Los Angeles (2011) 673 F.3d 880, 886 (revd. on other grounds and remanded by Los Angeles County Flood Control District v. Natural Resources

 Defense Council (133 S. Ct. 710 (2013))) that engagement in the iterative process does not provide a safe harbor from liability for violations of permit terms prohibiting exceedances of water quality standards. The Ninth Circuit holding is consistent with the position of the State and Regional Water Boards that exceedances of water quality standards in an MS4 permit constitute violations of permit terms subject to enforcement by the Water Boards or through a citizen suit. While the Water Boards have generally directed discharges to achieve compliance by improving control measures through the iterative process, the San Diego Water Board retains the discretion to take other appropriate enforcement and the iterative process does not shield dischargers from citizen suits under the CWA.
 - iii. The requirements of Provision A.4, therefore, are required to be implemented until the water quality standards expressed under Provisions A.1.a, A.1.c, and A.2.a are achieved.
 - iv. Part of the "controls" required by the Order is the process described in Provision A.4.
 Provision A.4 includes the process that is ultimately expected to achieve compliance with the requirement that discharges from the MS4 do not cause or contribute to

water quality standards in the receiving waters." determined that discharges from the MS4 are causing or contributing to violations of Provision A.4 is required when the Copermittees or the San Diego Water Board have violations of water quality standards in the receiving waters. The implementation of

- 122 in CWA section 402(p) for discharges of pollutants in storm water from the MS4s Copermittees must comply with "maximum extent practicable" technology-based standards set forth practicable treatment or control to meet water quality standards. As required by 40 CFR 122-44(a), the State and federal antidegradation policies. The Order requires the Copermittees to meet best The San Diego Water Board's Basin Plan implements and incorporates by reference both the
- Pursuant to 40 CFR 122.26(d)(2)(rv), each Copermittee is required to implement a engineering methods, and other such provisions which are appropriate practicable using management practices, control techniques and system, design and "management program . . . to reduce the discharge of pollutarits to the maximum extent
- þ MIS4s regulated to the IMEP standard achieve the standard by storm water management plan standards (WQS) are the only baseline that exists within the MEP standard Therefore, the MS4 permitting process has no numeric mandates. Therefore, water quality no numeric baseline criteria in the MEP standard like there are in the TBELs in §1311. that implement best management practices in a narrative form, not a numeric form. There are
- 'n WQS's are the only way to "control [] such pollutants" from municipal storm water because without a concrete standard, there is no measure of control
- 133 Other pollutants such as heavy metals or pesticides can adhere to sediment and are transported to macroinvertebrates. Sediment can also make it difficult for fish to breathe because it clogs fish gills photosynthesis of water-philic plants, as well as successful foraging and reproduction of beathic functionality of native flora and fauna in local creeks. For example, turbidity interferes with both problematic to receiving waters. Fine sediment in creeks causes high turbidity that interferes with the occurring in the natural environment, the discharge of sediment under unnatural conditions is NPDES Permit No. CAS0109266, Attachment F describes: "Although sediment is naturally

. . *



receiving waters during storm events, where they dissolve in the water column and become bioavailable to aquatic organisms. Sediment is recognized as a major stressor to surface waters . . . "

- a. Attachment F further describes: "The San Diego Water Board identified, through investigations and complaints, sediment discharges from unpaved roads as a significant source of water quality problems in the San Diego Region. Inspection activities conducted by the San Diego Water Board since the Third Term Permits have found a lack of source control for many unpaved roads within the jurisdiction of the Copermittees. Unpaved roads are a source of sediment that can be discharged in runoff to receiving waters, especially during storm events. Erosion of unpaved roads occurs when soil particles are loosened and carried away from the roadway base, ditch or road bank by water, wind, traffic, or other transport means. Exposed soils, high runoff velocities and volumes, sandy or silty soil types, and poor compaction increase the potential for erosion. Road construction, culvert installation, and other maintenance activities can disturb the soil and drainage patterns to streams in undeveloped areas, causing excess runoff and thereby erosion and the release of sediment. Poorly designed unpawed roads can act as preferential drainage pathways that carry runoff and sediment into natural streams, impacting water quality. In addition, other public works activities along unpaved roads have the potential to significantly affect sediment discharge and transport within streams and other waterways, which can degrade the beneficial uses of those waterways.
- b. The EPA also recognizes that discharges from unpaved roads pose a significant potential threat to water quality. EPA guidance emphasizes the threat of unpaved roads to water quality: "Dirt and gravel roads are a major potential source of these pollutants [sediment] and pollutants that bind to sediment such as oils, mutrients, pesticides, herbicides, and other toxic substances. Many roads have unstable surfaces and bases. Roads act like dams, concentrating flows that accelerate erosion of road materials and roadsides. Both unstable surfaces and accelerated erosion then lead to sediment and dust."



- Non-storm water (dry weather) discharges from the MS4 are not considered storm water (wet weather) discharges and therefore not subject to the MEP standard. Non-storm-water discharges must be reduced and effectively prohibited whee the non-storm water is a source of pollutants to the MS4 through effective controls.
- The Copermittees are required to reduce or eliminate non-storm water discharges such as water from springs and rising ground waters to the MS4, even when those non-storm water discharges are uncontaminated, to further the San Diego Water Board's policy of enhancing local water supplies.

 2013 MS4 Permit, Provision E.2.a.(7).
- Pure spring water discharged into the MS4 is considered a conditionally exempt category of non-stommater. However, spring water that has accumulated excess sedimentation directly from third parties' point sources and/or from a municipality's point sources is considered polluted non-stormwater (anthropogenically caused) and is not subject to the MEP standard but must meet a much more stringent test. Such discharges from the MS4 into receiving waters are to be <u>effectively</u> <u>prohibited</u> and are to be treated as illicit discharges unless effective controls and other best management practices (BMPs) are put into place to reduce the non-storm water discharges to acceptable levels.
 - Provision C includes requirements for the Copermittees to identify and include
 manneric action levels in the Water Quality Improvement Plan to direct and focus the
 Copermittees' jurisdictional runoff management program implementation efforts for
 controlling MS4 discharges to receiving waters.
 - ii. Under Provision C, the numeric action levels required are for non-storm water discharges and storm-water discharges. The non-storm water action levels (NALs) are applicable to non-storm water discharges from the Copermittees' MS4, which can occur year-round. The storm water action levels (SALs) are applicable to storm water discharges from the Copermittees' MS4s, which occur during the rainy season define as the period between October 1 and April 30.



- The numeric non-storm water action level for turbidity is 20 NIU, which is a
 maximum daily action level.
- The maneric non-storm water action level for fecal coliform is 200 MPN/100
 rol as an average monthly action level and 400 MPN/100 rol as an
 instantaneous maximum.
- 3. The numeric storm-water action level for turbidity is 126 NTU.
- iii. The action levels of Provision C are to be used by the Copermittees to prioritize the actions to be implemented as part of the Water Quality Improvement Plan.
- iv. If there are non-storm water discharges that are not required to be addressed as illicit discharges, those discharges must comply, at a minimum, with the discharge prohibitions and receiving water limitations of Provision A. Thus, the non-storm water discharges from the MS4 must be at levels that will not cause or contribute to a condition of pollution, contamination, or misance (provision A.1.a), and must not cause or contribute to a violation of water quality standards in receiving waters (Provision A2.a) to be consistent with the discharge prohibitions and receiving water limitations of Provisions A.1.a and A.2.a.
- v. Exceedances of NALs would then provide an indication of the relative severity of a pollutant in non-storm water discharges from the MS4 contributing to potential or observed receiving water impacts. The relative severity or significance of a pollutant in non-storm water discharges from the MS4 will provide the Copermittees a valuable source of information that can be used to identify priority water quality conditions within a Watershed Management Area and within each Copermittee's jurisdiction.
- vi. Non-storm water discharges are not authorized to enter the MS4 and are considered to be illicit discharges, unless authorized by a separate NPDES permit.
 - Consistent with federal law, unless non-storm water discharges to the MS4
 are authorized by a separate NPDES permit, non-storm water discharges are
 appropriately subject to the effective prohibition requirement in the CWA and

storm water regulation in crafting appropriate regulations for non-storm water discharges Regional Water Boards are not limited by the iterative MEP approach to

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Ņ The federal regulations (40 CFR 122.26(d)(2)(vi)(B)(1)) require the non-storm water discharges to their MS4s through enforcing their legal means" to address and prevent polluted non-storm water discharges to their Copermittees to "implement and enforce an ordinance, order or similar require those discharges to obtain coverage under a separate NPDES permit San Diego Water Board to reduce the non-storm water discharges, or else remove those discharges to their MS4s, put controls in place approved by the authority established under "ordinance, order, or similar means" and either MS4s. Thus, the Co-permittees are required to "effectively" prohibit polluted

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- لغا Non-storm water discharges (dry weather) from the MS4 are not considered storm water (wei weather) discharges and therefore are not subject to the MEP standard
- The Copermittees must effectively prohibit non-storm water discharges into the MSAs, reduce the discharge of pollulants in storm water from the MSAs to the MEP, and ensure that their MS4 discharges do not cause or contribute to violations of water quality standards
- Ś If the Copermittees have effectively prohibited non-storm water discharges Provision A.4 provides a clear "iterative process" for the Copermittees to and reduced storm water pollutant discharges to the MEP, but their discharge additional BMPs until MS4 discharges no longer cause or contribute to a follow. Provision A.4 essentially require the Copermittees to implement are still causing or contributing to violations of water quality standards, violation of water quality standards.

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- 6. The federal NPDES regulations also reference several categories of nonstorm water discharges or flows [which] shall be addressed where such discharges are identified . . . as sources of pollutants to waters of the United States."
- 7. The federal NDPES regulations do state that specific categories of non-storm water discharges must be "addressed" if identified as "sources of pollutants to waters of the United States."
- 8. Provision E.2.a of the City's NPDES permit requires each Copermittee to address all types of non-storm water discharges into its MS4 as illicit discharges, unless the discharge is authorized by a separate NPDES permit, or identified as a category of non-storm water discharges or flows that must be addressed pursuant to Provision E.2.a. Only non-NPDES-permitted non-storm water discharges identified as a category of non-storm water discharges under Provisions E.2.a.(1) through E.2.a.(5) <u>AND</u> not identified as a source of pollutants do not have to be addressed as illicit discharges.
- 9. Each Copermittee must, where feasible and priorities and resources allow, reduce or eliminate non-storm water discharges listed under Provisions E.2.a.(1)-(4) into its MS4, unless a non-storm water discharge is identified as a discharge authorized by a separate NPDES permit. This provision applies to uncontaminated spring water and rising groundwaters under Provision E.2.a.(3).
- 10. Under Provision E.2.a.(6), if the Copermittee or the San Diego Water Board identifies any category of non-storm water discharges listed under E.2.a.(1)-(4) as a source of pollutants to receiving waters, the category must be prohibited through ordinance, order, or similar means and addressed as an illicit discharge. Alternatively, the Copermittee may propose controls to be implemented for the category of non-storm water discharges as part of the



Water Quality Improvement Plan instead of prohibiting the category of nonstorm water discharges, and implement the controls if accepted by the San Diego Water Board as part of the Water Quality Improvement Plan.

- 11. Consistent with 40 CFR 122.26(d)(2)(iv)(B) and 122.26(d)(2)(iv)(B)(1), each Copermittee must implement a "program . . . to prevent illicit discharges to the municipal storm sewer system" and "detect . . illicit discharges and improper disposal into the storm sewer," including "other sources of non-storm water." Provision E.2.b requires each Copermittee to identify major outfalls and to implement measures to prevent and detect illicit discharges and connections to its MS4 as part of its illicit discharge detection and elimination program on public and private property within its jurisdiction.
- 12. Provision E.2.c requires each Copermittee to conduct field screening of its MS4 within its jurisdiction to detect non-storm water and illicit discharges to the MS4.
 - (a) Elimination of illicit discharges to the MS4 is consistent with the requirements of 40 CFR 122.26(d)(2)(iv)(B) "to detect and remove ... illicit discharges" that will achieve the CWA requirement for MS4 permits to "effectively prohibit non-storm water discharges into the storm sewers
 - (b) Each Copermittee is responsible for prioritizing its efforts to eliminate non-storm water and illicit discharges or connections to its MS4 based on field screening and monitoring data, NALs, illicit discharge investigation records, and the known or suspected sources. Sources of non-storm water and illicit discharges or connections must be eliminated by enforcing the legal authority established by each Copermittee pursuant to Provision E.1.

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through effective controls 2013 MS4 Permit Provision E.2.a(6)	the prohibition of that category of discharge or a reduction of that discharge	pursuant to E.5 or the category of discharge must be addressed either throu	circumstances that will be addressed through its Enforcement Response Pla	storm water discharge from springs that exceeds a NAL as either a set of	13. Provision E.2.d. requires the Copermittee to categorize a reoccurring non-

- 14. Provision E.6 requires each Copermittee to develop an Enforcement Respons sturmwater discharges to the MS4 and reduce the discharge of pollutants in Proper implementation of the ERP is necessary to effectively jurnibit non-Plan as part of its jurisdictional runoff management program document. storm water from the MS4 to the MIEP.
- (a) The ERP will serve as a reference for the Copermittee and enfurcement actions are being implemented to achieve the Sun Diego Water Bound to determine if consistent entities that are not in compliance with the Copermittee's timely and effective compliance from all public and private ordinances, pennits, or other requirements

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- (b) The ERP must contain clear direction for the Copermittee elimination, construction management, and existing to take immediate enforcement action, when appropriate development management programs and necessary, in their illicit discharge detection and
- (c) Violations must be corrected in a timely manner, with escalated enforcement required for non-compliance.
- 15. Provision E.7 requires each Copermittee to implement a public education and program, which will contribute toward effectively prohibiting non-sturm participation program as part of its jurisdictional numbif management



water discharges to the MS4 and toward the reduction of pollutants in storm water from the MS4 to the MEP.

- 127. The Copermittees must develop and conduct a program to monitor the discharges from the MS4 outfalls in each Watershed Management Area during dry weather and during wet weather. 2013 MS4 Permit, Provision D.2.
 - a. The Copermittees must conduct MS4 outfall discharge monitoring during implementation of the Water Quality Improvement Plan to assess the effectiveness of their jurisdictional runoff management programs toward effectively prohibiting non-storm water discharges into the MS4 and reducing pollutants in storm water discharges from their MS4s to the MEP.
 - Each Copermittees must identify all major MS4 outfalls that discharge directly to receiving waters.
 - c. Each Copermittee unust perform dry and wet weather field screening monitoring to determine persistent flows and to identify non-storm water and illicit discharges within its jurisdiction and prioritize the dry weather MS4 discharges that will be investigated and eliminated pursuant to Provision E.2.d.
- The MS4 Pennit requires that the City "effectively prohibit" non-storm water discharges into the MS4 through the implementation of a Jurisdictional Ronoff Management Plan, unless such discharges are authorized by a separate NPDES permit. 2013 MS4 Permit, Provision A.1.b; 2009 MS4 Pennit, Discharge Provision B.1; see also 2013 MS4 Pennit, Findings 15.
 - i. The MS4 Permit requires the City's Jurisdictional Runoff Management Plan to implement "a program to actively detect and eliminate illicit discharges into the MS4, or otherwise require the discharger to apply for and obtain a separate NPDES permit." 2013 MS4 Permit, Provision E.2; see also 40 C.F.R. § 122.26(d)(2)(iv)(b) (Dec. 21, 2015).
 - ii. An "illicit discharge" is "any discharge to a [MS4] that is not composed entirely of storm water and is not covered by an NPDES permit." 2013 MS4 Permit, Attachment F-39; see also 40 C.F.R. § 122.26(b)(2) (Dec. 21, 2015).





- iii. The Illicit Discharge Detection and Elimination program must be implemented in accordance with previously adopted strategies (a water quality improvement plan) are include certain detailed requirements to achieve compliance with non-storm water discharge prohibitions and receiving water limitations. 2013 MS4 Permit, Provision E.2., Provision A.4.
- iv. The City's Illicit Discharge Program must include specific measures to prevent and detect illicit discharges to the MS4. These measures include:
 - Including and maintaining an accurate and updated geographic informational system ("GIS") map of its MS4 that, among other requirements, identifies all segments of the MS4 including major outfalls. 2013 MS4 Pennit, Provision E.2.b.(1).
 - Using the City's "personnel and contractors to assist in identifying and reporting illicit discharges and connections during their daily employment activities." 2013 MS4 Permit, Provision E.2.b (2).
 - Conducting field screening, including visual observations, of portions of its MS4 to detect non-stormwater and illicit discharges and connections to the MS4. 2013 MS4 Permit, Provision E.2.c; and
 - Including enumerated measures to investigate and eliminate illicit discharges to the MS4. 2013 MS4 Permit, Provision E.2.d.
- v. The City is required to prioritize an investigation into non-storm water or illicit discharges when, as here, pollutants identified with those discharges are causing or contributing to receiving water impairments or impacting environmentally sensitive areas within the City. 2013 MS4 Permit, Provision E.2.d(1)(a-b).
- vi. When illicit discharges and connections are known to the City, it must use its legal authority to eliminate them. 2013 MS4 Pennit, Provision E.2.d (3)(a).
- In addition to its discharge prohibitions and controls on the City's own activities, the MS4

 Permit requires the City to "establish, maintain, and enforce adequate legal mithority within its



jurisdiction to control pollutant discharges into and from its MS4 through statute, ordinance, permit, contract, order or similar means." 2013 MS4 Pennit, Provision E.1.a; see also 40 C.F.R. § 122.26(d)(2)(vi)(B)(1) (Dec. 21, 2015).

- As noted above, the MS4 Permit demands that the City maintain adequate legal authority to, at a minimum, "prohibit and eliminate all illicit discharges and illicit connections to the MS4." 2013 MS4 Permit, Provision E.1.a.(1); see also 40 C.F.R. § 122.26(d)(2)(i)(B) (Dec. 21, 2015).
- 131. The City's legal anthonity must also control the discharge of spills, dumping, or disposal of materials and other unpermitted fills and mobile pollutants into its MS4. 2013 MS4 Permit, Provision E.1.a. (3).
- 132. The City's authority most require the use of effective controls and best management practices ("BMPs") to prevent or reduce the discharge of pollutants in storm water from its MS4 to the maximum extent practicable. 2013 MS4 Permit, Provision E.1.a.(7).
- 133. In addition, the City must have the authority to, at a minimum, ensure compliance with its own regulatory efforts to effectively prohibit non-storm water discharges and either eliminate (or effectively reduce) those discharges to their MS4 or require those non-storm water discharges to its MS4 to have their own separate NPDES permits. 2013 MS4 Permit, Provision E.1.a (9); see also Id., Attachment F at F-40.
- 134. The MS4 Permit requires that the City submit a statement certifying that it has "taken the necessary steps to obtain and maintain full legal authority within its jurisdiction to implement and enforce each of the requirements in the [MS4 Permit]." 2013 MS4 Permit, Provision E.1.b.
- 135. The City of Poway has prepared its own Jurisdictional Runoff Management Plan (JRMP) in accordance with its NPDES permit for its MS4.
- 136. Under 8.2.2 of Powny's JRMP, the City has agreed to maintain unpaved roads and implement BMPs to prevent the transportation of sediment into the storm water conveyance system.
- In its JRMP, the City also stated that it will take action in accordance with its Enforcement Response Plan to eliminate illicit connections and illicit discharges into, from, and through its MS4 that lead to non-storm water pollution in receiving waters.

ATTACHMENT A





- Provision F includes the requirements for the documents and reports that the Copermittees must prepare and provide to the San Diego Water Board, including Water Quality Improvement Plans a Jurisdictional Runoff Management Plan, Waste Discharge Reports, and reports of non-storm water discharges as well as illicit discharges and connections.
 - a. The Copermittee must confirm whether or not a program was implemented during the fiscal year to actively detect and eliminate illicit discharges and connections in accordance with the requirements under Provision E.2.
 - b. The City is also required to file a Waste Discharge Report containing any illicit discharges to receiving waters and any exceedances of numeric or narrative water quality standards.
 - c. Illicit connections and illicit discharges and all known non-storm water discharges must be reported to the San Diego Water Board.
 - V. CWA Section 404 Department of the Army Permits & CWA Section 401 Water Quality

 Certifications
- Department of the Army Regional General Pennit (RGP) Number 63 for Repair and

 Protection Activities in Emergency Situations authorizes discharges of dredged or fill material into

 Waters of the United States, including adjacent wetlands, and/or work or structures in and adjacent to
 navigable waters of the United States for necessary repair and protection measures associated with an
 emergency situation.
- An "emergency situation" is present where there is clear, sudden, unexpected, and imminent threat to life or property demanding immediate action to prevent or mitigate loss of, or damage to, life health, property, or essential public services (i.e., a situation that could potentially result in an unacceptable hazard to life or significant loss of property if corrective action requiring a permit is not undertaken immediately).
- RGP 63 applies to all of San Diego County.
- 142. Under RGP 63, discharges of dredged or fill material into Waters of the United States must be avoided or minimized to the maximum extent practicable at the project site. Compensation for unavoidable discharge of fill materials may remove appropriate mitigation measures.

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Under the terms of RGP 63, any work authorized must be the minimum necessary to alkevial
the immediate emergency, unless complete reconstruction only results in very minor additional impa
to aquatic resources and logistical concerns indicate such reconstruction is as expedient considering
the condition of the project site and is limited to in-kind replacement or refurbishment. The RGP may
NOT be used to upgrade an existing structure to current standards when that activity would result in
additional adverse effects on aquatic resources. Such upgrade projects shall be considered separate
activities for which other forms of authorization will be required.

- 144. in sufficient detail in the post-project report. assessment is not authorized unless coordinated with the Regulatory project manager and acknowledged by appropriate means. These coordinated pennit modifications must also be described Work not described in permit application documentation but deemed necessary after a field
- 145 impending loss may have diminished in magnitude, as well as immediacy, and generally would not authorization. If the project start time can be delayed for more than two weeks, the imminent threat of meet the definition of an "emergency." Any projects authorized under RGP 63 must be initiated within 14 days of receiving
- 146 quality certification for RGP 63 dated November 25, 2013. California's State Water Resources Control Board issued a conditional Section 401 water
- 147 or judicial review. The 401 Certification for RGP 63 is subject to modification or revocation upon administrative The 401 Certification for RGP 63 is limited to emergency situations that meet the California

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- 149 Environmental Quality Act definition of an "emergency." For actions that do not quality for enrollment under 401 Certification for RGP 63 because the
- situation does not meet the definition of "emergency," the discharger must contact either the State certification Water Board or the applicable Regional Water Board to apply for an individual water quality
- 150 the emergency actions shall be implemented Under RGP 63, all necessary BMPs to control erosion and runoff from areas associated with

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	152.	Inventory.	palette	151.	
The state of the United States.	Under RGP 63, every effort must be made to ensure any material dredged or excavated from	ory.	palette must not contain any plants listed on the California Invasive Plant Council Invasive Plant	Under RGP 63, restoration must include revegetation with native species. The revegetation	

- السنز الأرا
- 153 structures or adjacent bank stabilization. water supply intake except where the discharge is for the repair of the public water supply intake Under RGP 63, no discharge of dredged or fill material may occur in the proximity of a publi
- 15 the primary purpose of the fill is to impound waters expected high flows or cause the relocation of the water except within the existing river plain unless Under RGP 63, discharges must not permanently restrict or impede the passage of normal or
- 155, removal and/or redesign of the original canergency corrective action, or appropriate mitigation as such situations, corrective measures will be taken to rectify these adverse conditions, including determined that the structure is further contributing to other adverse conditions to public property. In determined through coordination with the penuittee and the appropriate Federal and State agencies. Under RGP 63, any structure or fill authorized shall be maintained, unless it is later
- \$ City of Powny's Habitat Conservation Plan Required by the ESA
- 186 Plan/Natural Community Conservation Plan (HCP) is necessary to allow for the incidental take of 10(a) of the federal Endangered Species Act (ESA), 16 U.S.C. § 1539 take/management authorization permit. This subarea HCP fulfills requirements pursuant to Section listed species by public projects and private projects which rely upon the City's incidental Preparation and implementation of the catywide Poway Subarea Habitat Conservation
- 157 assures that the HCP will be fully implemented implementing agreement for the HCP, properly signed by the City of Poway and the wildlife agencies Poway's IHCP plays a number of legal roles as an environmental planning document, and the

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		in the second	wheth	of natu	165.	resolts	\$	Poway	devek	163.	admin	Mittiga	Comp	Poway	162	(Polio)	(Bacch	10(a)(1	161.	SD CE	160.	endeav	159.	ccosys	interco	158.	

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ecosystem health - in exchange for allowing limited "take" of the species or its habitat.	interconnected habitet areas to support listed species - or "target" species that serve as indicators of	Collectively, the laws and planning efforts require protection and management of sofficient,

- rors, such as development allowed under the community's adopted General Plan Section 1.0 of the HCP points out that incidental take may occur during otherwise lawful
- R 13.25(d) (January 8, 2014) The issuance of an ITP authorizes "take" by any entity under "direct control of the permittee.
- 1)(B) of the federal ESA. Listed species covered under the plan include: Encinitas Baccharis ptila californica californica), and the Least Bell's virco (Fireo bellii pusillus). uris vanessae), Southwestern willow flycutcher (*Empidomax trailli*i), California gnuteatcher The Powey Subarea HCP serves as a multispecies HCP as called for under Section
- istered by the City of Poway or a land trust acting as an agent of the City of Poway." thon Area as biological open space or 2) payment of in-lieu fees into a mitigation bank ensating mitigation can consist of 1) outright purchase or dedication of lands inside the shall require compensating mitigation, restandion, or revegetation, or a combination thereof. Section 7.4 states: "Impacts to vegetation communities and wildlife habitats in the City of
- procent projects within the City or within other jurisdictions that choose to mitigate within Section 7.4 states: "The compensation strategy applies to planned public and private
- of a biological resource survey technical report prepared by a qualified biologist." Section 7.4 further states: "The specific minigation strategy for a project will be based on the
- er inside or outside of the Mitigation Area ural vegetation or wildlife habitat within the City of Poway and that are subject to the HCP, Section 7.4.3: The following mitigation ratios shall apply to all projects resulting in removal
- subancement at a minimum ratio of 3:1 for woodland types and 2:1 for shrub-dominated Any unavoidable impacts to wetland habitat will be minigated by replacement or





types. Mitigation ratios for disturbed wetlands will generally be mitigated in-kind at no less than 1:1 ratio as determined on a case-by-case basis.

- b. Impacts to oak-dominated habitats shall require mitigation by in-kind habitat creation, restoration, or enhancement. Impacts shall require a minimum of a 3:1 replacement ratio.
- c. Direct impacts to coastal sage scrub or mixed coastal sage scrub/chaparral shall be compensated at a minimum 2:1 ratio.

VII. FACTUAL ALLEGATIONS

- The City of Poway is a municipality of the State of California and, therefore, a "person" as defined by Section 502(5) of the CWA, 33 U.S.C. 1362(5), and Section 3 of the ESA, 16 U.S. § 1532(13) and subject to both Acts' requirements.
- The City of Poway is primarily responsible for the design, construction, management, and maintenance of the trails surrounding Lake Poway, including the dirt roads, stream crossings, and maintenance facilities in the vicinity. These operations include roads with drainage systems, catch basins, ditches, man-made channels, and storm drains.
- 168. The City of Poway owns (or leases) Lake Poway and the surrounding areas including the following parcels: APNs: 278-280-2300; APN: 278-290-1000; APN: 278-281-0100; APN: 7601590500; and APN: 278-210-1100.
- as well as Complainant's privately owned land, including APN: 278-210-2900 and 278-210-3000.
- 170. The trails cross waters of the United States and State of California in at least five places, including on City-owned land and on Complainant's privately owned land (APN: 278-210-3000).
- 171. Trail construction and maintenance involve dredging and filling activities in waters of the United States.
- 172. Trail construction and maintenance involve cutting wood and living plants, including state and federally protected threatened and endangered species such as Encinitus Baccharis (Baccharis vanessae) and Del Mar Manzanita (Arctostaphylos glandulosa ssp. Crassifolia).





- 173. Trail maintenance also involves disturbing the habitat of threatened and endangered species including the Southwestern willow flycatcher (Empidonax traillii), Golden eagle (Aquila chrysaetos canadensis), California gnatcatcher (Polioptila californica californica), and the Least Bell's vireo (Vireo bellii pusillus).
- 174. The City of Poway owns and operates a MS4 and its components, including on APNs: 278-280-2300; APN: 278-290-1000; APN: 278-281-0100; APN: 7601590500; and APN: 278-210-1100.
- 175. The City of Poway's access road and trails cross its MS4 system in several locations above Lake Poway.
- The City of Powny's MS4 system encompasses streams and creeks from Powny's city limits off of Highway 67 and all the way downstream into Lake Powny. The subwatershed area feeding Lake Powny only extends to Mount Woodson and the eastern city limits of Powny.
- 177. The MS4 owned by the City of Poway includes portions of Warren Creek and the City-owned culverts and a wooden footbridge within Warren Creek and its tributaries.
- 178. Poway's MS4 also includes the cross-drainage culverts along the City's unpaved roads above

 Lake Poway, which drain directly into Lake Poway.
- Poway's MS4 also includes a wooden footbridge over Warren Creek that is by definition a major outfall point source where storm and non-storm water directly discharges into the surface water of Lake Poway (Boulder Bay) and its adjacent wetlands through a single conveyance draining more than 50 acres.
- 180. Poway's MS4 is a collection of point sources, including outfalls, that discharge into the navigable waters of the United States. See NRDC v. CNTY. of Los Angeles, 725 F.3d 1194, 1198 n.6 (9th Cir. 2013).
- 181. "[S]tream crossings for roads may involve point source discharges of dredged or fill material." See 40 C.F.R. § 122.27(b)(1) (August 30, 2018).
- 182. The Army Corps has asserted jurisdiction over Warren Creek and Lake Poway as waters of the United States.





- 183. Lake Poway is considered a receiving body of water and "waters of the United States." It is a navigable body of water in the traditional sense.
- Lake Poway and Warren Creek are within the San Dieguito watershed.
- 185. The City of Poway conducts and/or controls construction activities, including clearing, grading, and excavation, and other land disturbance activities at various locations around Lake Poway and other locations within the San Diegnito watershed. ("Construction activities").
- The City of Poway conducts maintenance activities, including road maintenance (such as slope stabilization, vegetation control, and drain inlet cleaning) and road surveillance, throughout the City of Poway. The City of Poway also owns and/or operates maintenance facilities, including vehicle maintenance facilities, sand storage facilities, material and equipment storage facilities in the City of Poway. The City of Poway maintains the dirt roads and trails in and around Lake Poway, including clearing them of debris and runoff damage after storms, dredging and filling activities to repair stream crossings, and regularly trimming tree and plant growth along its trails. ("Maintenance activities.")
- 187. The City of Poway has several volunteers under the authority and direction of Bob Hahn,
 Poway's Parks Maintenance Supervisor, who help maintain the City's trails, including those on
 Complainant's privately owned land (APN: 278-210-2900 and 278-210-3000).
- 188. The City of Poway also has staff under the direction of Mike Obermiller, P.E., and the City Engineer, Steve Crosby, P.E., who both oversee construction and maintenance activities of the City's trails and access roads above Lake Powey.
- 189. The City of Poway's discharges consist of storm water and non-storm water runoff generated from its operations and properties, including its Construction Activities, Maintenance Activities, and Maintenance Facilities.
- 190. Mobile components of the City of Poway's point-source earthen culvert crossings have been discharged as effluent into its downstream MS4, through a major outfall point source, and into Lake Poway, a navigable receiving water of the state and of the United States.
- 191. The City of Poway's discharges of pollutants into stormwater and non-stormwater have caused and have threatened to cause pollution in waters of the United States. Pollutant sources from

ATTACEMENT A

symbetic organics, sediment, nutrients, debris, oxygen demanding substances (decaying vegetation, tributaries and other receiving waters, including Lake Poway. Pollutant categories include metals, inevitably lead to water pollution into the Pacific Ocean 17 miles away harm to aquatic species in the receiving waters. Losing the flood control capacity of Lake Powny will Lake Poway, water discharged out of a device, and road reconstruction activities in and near animal waste, and other organic matter), and other pollutants which may cause aquatic toxicity and activities upstream of Lake Poway, sediment runoff coming from durt bridges placed in streams above maintenance facility runoff, dumping, spills, landscape cure, vegetation removal, dredging and filling the City of Poway's operations include motor vehicles, road maintenance, construction site runoff,

- 193 ephemeral tributaries backfull have been placed in waters of the state and United States, including both seasonal and There are at least four locations immediately above Lake Powny in which culverts with dirt
- 193 States that connect to Lake Poway. of Poway has dredged, placed dirt backfill or some other type of crossing in Waters of the United There are at least two additional locations about a mile above Lake Poway in which the City
- 192 draining storm water and efflirent into waters of the United States, i.e. Lake Poway There are at least eight additional cross-draining culverts under the trails above Lake Poway
- Jŷ5 private property upstream of Lake Poway, all of which were washed out during the winter storms of **a**uthorizations 2017. Since then, some of these crossings have been rebuilt without the proper permits and There are at least four unpermitted culvert with dirt-backfull crossings over Warren Creek on
- 196 significance, and non-contact water recreation. See State Water Resources Control Board, Beneficial municipal and domestic supply, agricultural supply, industrial service supply, industrial process Use Designation under the Porter-Cologne Water Quality Control Act supply, wildlife habitat, cold freshwater habitat, preservation of biological habitats of special The beneficial uses of the streams in Warren Canyon and in Lake Poway itself include

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Nitrogen, pH, Phosphorus, Viruses, Turbidity, and Nutrients.	pollulants coming from its MS4 in Warren Canyon: Indicator Bacteria, Color, Manganese, Mercuny	The City of Poway's Jurisdictional Runoff Management Plan has identified the following

- 198 discharged to the City-owned MS4. flows that are contaminated with pollution from point-sources and non-point sources before being The City of Poway's discharges consist of storm water and non-storm water flows, including
- <u>1</u>9 for purposes of the Clean Water Act and the City's Regional MS4 Permit when the discharges first enter "into" the City-owned MS4. The non-storm water spring water and rising ground water flows are considered "discharges"
- 201 discharges from Rock Haven that first flow through a culvert underneath Highway 67 and into the depicts the spring water flows from Mount Woodson on APN: 278-210-1800 and the spring water Powsy on City-owned property (APN: 278-210-1100). The picture below, taken in 1968 after a fire 278-210-1800 in the City of Poway and Rock Haven Spring located near Highway 67 in the City of Kelly Spring located near the base of Mount Woodson on Complainant's private property at APN: discharges when those flows pass through a culvert or an outfall, or other type of point source. There are two prominent sets of springs in the watershed area that feeds Lake Poway: the The non-starm water spring water and rising ground ground waters are also considered

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shown below.

City of Powary's MS4 before embering Complainant's private property at APN: 278-210-1800 as

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Both the spring water discharges from Mount Woodson and from Rock Haven flow into a merged Warren Creek that eventually are deposited downstream through a major outfall (a wooden footbridge single conveyance) on City-owned APNs: 278-280-2300 and APN: 2782810100 and directly into Lake Poway, the receiving waters. The photograph below depicts Complainant's parcel APN: 278-210-1800 in yellow; the City's parcel APN: 278-210-1100 which contains Rock Haven Spring discharges is in pink; Lake Poway is colored blue; and Warren Creek as well as the stream coming off of Mount Woodson on Complainant's parcel are outlined in blue.

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203. The spring water discharges from Rock Haven regularly become contaminated with pollutants from Highway 67 before being deposited into the City-owned MS4, then onto Complainant's property at APN: 278-210-1800, and then pick up more pollutants at various locations on private property in Warren Canyon before eventually emptying into City-owned property, through a major outfall point source, and into Lake Poway.

204. The spring water discharges from both Rock Haven and Mount Woodson also become polluted with contaminants from various illicit connections and unpermitted discharges and mobile pollutants at various locations on private property in Warren Canyon before eventually emptying into City-owned property and its MS4, through a major outfall, and into Lake Poway.

205. The City of Powny's unanthorized point-source earthen culvert crossings have also discharged pollutants as effluent into its MS4 and into Lake Powny, a navigable water of the state and the United States.

ATTACHMENT L



98 City-owned portion of Warren Creek (its MS4), through a major outfall/point source, and into Lake within Wanten Creek in Warren Canyon on private property - that eventually get discharged into the conveyance system- the many unauthorized colvents with dirt-backful stream crossings installed polluted from the illicit connections/discharges in and from the privately owned storm water The illicit discharges into Lake Poway include non-stonn spring water which becomes

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207. runoff, maintenance facility runoff, dumping, spills, landscape care, vegetation removal, diedging and from the City of Poway's operations include motor vehicles, road maintenance, construction site have caused and have threatened to cause pollution in waters of the United States. Pollutant sources metals, synthetic organics, sediment, nutrients, debris, oxygen demanding substances (decaying in and near tributaries and other receiving waters, including Lake Poway. Pollutant categories include filling, sediment runoff coming from dirt bridges placed in streams, and road reconstruction activities vegetation, animal waste, and other organic matter), and other pollulants which cause aquatic toxicity in the receiving waters The City of Powey's discharges of pollutants into storm water and non-storm water discharge

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- The City of Poway is liable for the point source storm water pollution connections/discharges and the intentional placement of mobile coming from its unpayed road culvert crossings, from other illicit pollutants in Warren Creek on private property, and from non-storm winter storms of 2017. water dry weather polluted discharges into Lake Powny following the
- 208 the MS4 comprises Warren Creek - a perennial stream funneling storm and spring water from Mount Woodson and Rock Haven - and its ephemeral tributaries, all of which flow into Lake Poway. The City of Powey owns and operates a MS4 immediately above Lake Powey. This portion of

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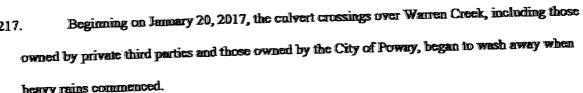
8 upstream from Lake Poway. The water from this spring is directly discharged into Warren Creek, the City's MS4, on City-owned property at APN: 278-210-1100 before entering private property. The City of Powny owns Rock Haven Spring on Rock Haven mountain about one-mile plus





- 210. Storm water and non-storm water from Rock Haven then flows through one-mile plus length of Warren Creek on private property, including Complainant's property at APN: 278-210-1800.
- 211. Complainant's property contains a separate perennial spring on Mount Woodson that flows through private property for one mile plus before entering the City's MS4 at APN: 278-280-2300 by Lake Poway.
- 212. Illegal third-party actions on private property in Warren Camyon have resulted in illicit connections/discharges and other unpermitted materials being placed in Warren Creek. The pollutants are carried by storm and non-storm water flows downstream into the City's MS4 and into the receiving waters of Lake Poway.
- 213. The City of Poway has three culvert crossings composed of dredge and fill material over Warren Creek and its tributaries, as well as a wooden footbridge over Warren Creek, and the City regularly maintains them on at least a yearly basis with machinery such as tractors and other machinery, which add new fill materials to the jurisdictional waters.
- 214. The City of Powny-owned wooden footbridge over Warren Creek meets the legal definition of a major outfall that discharges storm and non-storm water directly into the surface waters of Lake Powny and its adjacent wetlands.
- 215. The City of Poway has failed to obtain any valid Clean Water Act permits for the maintenance of its culvert crossings or its footbridge over the last 25 years.
- The photograph below depicts the hiking trails above Lake Powey in 2012 (the red arrow shows the approximate location of the main Warren Creek culvert crossing. The wooden footbridge can be seen at the end of Warren Creek in the dry portion of the lakebed of the reservoir.).

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- On February 27, 2017, the largest portions of these culvert crossings were washed out when the heaviest rains produced destructive flows that damaged or destroyed at least two City-owned crossings over Warren Creek and its tributaries upstream of Lake Poway and at least four privately owned culvert crossings.
- The photograph below, taken on March 16, 2017 and during dry weather (it hadn't rained in 219. Poway in over two weeks), depicts the City's hiking trails above Lake Poway. Two red pins point to the approximate location of the culvert crossings within streams that were damaged or destroyed. The red pin on the right depicts the main tributary crossing within Warren Creek located at Lat. 33.003° N 117.0054° W in Section 32, Township 13 S, Range 1W, in the eastern portion of the city of Poway. There are two additional culvert crossings over ephemeral tributaries and at least eight additional cross-drainage culverts placed under the trails above Lake Poway (not identified in the picture below) all without CWA permits or state water quality certifications.

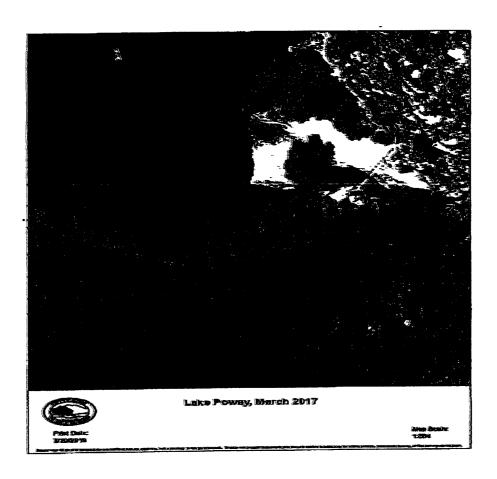
220. With the addition of pollution from the City's point sources as well as polluted discharges from private third parties, the non-storm water flowing through the City's MS4 and into Lake Poway was composed of highly concentrated amounts of sediment, debris, waste, herbicides, pesticides, metals, asbestos, and other illicit substances before the water hit major outfall and into the Boulder Bay area of Lake Poway.

The polluted storm water and subsequent non-storm water was discharged into Lake Poway on a daily basis from January 20, 2017 to April 17, 2017 and caused high turbidity levels in the reservoir for 87 days straight. The high turbidity levels also decreased the oxygen levels in the stream and reservoir which harmed aquatic species. The effluent also destroyed adjacent wetland habitat in the area above Boulder Bay.

222. The photograph below, taken on March 16, 2017 during dry weather (it hadn't rained in Poway in over two weeks), depicts the long-running plume of pollution migrating from Warren Creek



and into Lake Powny, the receiving body of water. The excess sediment now sits at the bottom of the reservoir. This picture depicts polluted non-storm spring water flowing into Lake Powny on March 16 2017, carrying the City's damaged point-source dirt stream crossings as well as third-party discharges into the reservoir bottom.



- 223. Turbidity can be measured relative to water clarity, and the turbidity measurement of the non-storm water discharges into Lake Poway was way above 200 NTUs on March 16, 2017. This measurement is above the NAL for non-storm water discharges (20 NTUs). This measurement was taken on a dry weather day as it hadn't rained in Poway in over two weeks (the capture date of the photo above is March 16, 2017.)
- 224. The cloriform measurement as measured at the public water supply intake in Lake Poway was also above the permitted NAL for non-storm water during the period of January 20, 2017 and April 17, 2017, including on or around March 16, 2017.

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- 226. 27 Poway in 2017, the City of Poway should have developed, implemented, and installed effective controls to reduce future sedimentation and other types of pollution into Lake Powey in the future. maximum extent practicable Having known that polluted storm water and non-storm water discharges have polluted Lake The City's corrent "BMPs," if any, would not control future storm water pollution to the
- Z water discharges into Lake Poway in the future The City's current "BMPs" would not effectively reduce or effectively prohibit non-storm
- 8 non-storm water discharges, and enforce the Clean Water Act regulations and state water quality own illicit connections and discharges, remove mobile pollutants, install effective controls to reduce federal law to effectively probibit future non-storm water plannes into Lake Poway by removing its requirements as to private landowners who have installed unpermitted culvert with dirt-backfill crossings and other mobile pollutants into Warren Creek within the City of Poway's juristiction. The City of Poway is required to go above and beyond the MEP standard and is required by The City of Poway must effectively segregate non-storm water discharges into its MS4

231. non-storm water discharges into Lake Poway is to require the procurement of separate NPDES pennits for the non-storm water discharges from Rock Haven on City-owned property and for the nor The City of Poway's only way around the strict standard to "effectively probabit" polluted

permit require that it do so regardless of pollution conditions in Lake Poway or any other receiving

because they are causing a condition of pollution in Lake Poway and because the City's NPDES

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City's MIS4 at APN: 278-290-1000 storm water flows that originates from Complainant's property but are passively discharged into the

- 232 U.S.C. § 1342(p) as follows: violeted NPDES Permit No. CAS0109266 and the Clean Water Act, 33 U.S.C. § 1311(a) and 33 On each and every day between January 20, 2017 and April 17, 2017, the City of Poway
- NPDES Permit No. CAS0109266, Provision A.1.a provides that "Discharges from MS4s in the polluted storm water; the discharges also encompass the polluted non-storm water spain biological pollutants attached to the sediment that comprised the carthen crossings which the "discharges" encompass the effluent made up of the dirt, gravel, fill, and chemical and Lake Poway, the MS4 also comprises Warren Creek and its tributaries on City-owned land, encompasses the portion of unprived access road with drainage systems (culverts) above least 87 times during the winter and early spring months of 2017. Here, the "MS4" in receiving waters of the state are prohibited." The City of Poway violated this provision at manner causing or threatening to cause, a condition of pollution, contamination, or muisas and biological pollutants attached to the sediment that were transported into the wellands water, the "pollution" comprises the unreasonable amounts of dirt, gravel, fill, and chemical disintegrated and were mobilized after the winter storms of 2017; the discharges encompass streams, and the wooden footbridge (major outfall) from which all pollutants were culverts, backfill placed within streams, the machinery used to place the backfill in the downstream wetlands and Lake Poway; and the point sources encompass the springs, of the beneficial uses of the wellands and the reservoir, the receiving waters include the adjacent to Lake Poway and into Lake Poway that resulted in the significant losses of many discharged into the surface waters of Lake Poway
- ø by burying the vegetation, reducing the storage capacity of the reservoir, and harming aquait narrative form in Provision A.1.a, the City has violated its NPDES permit life. Because the City of Poway violated the water quality standards as articulated in The storm water and non-storm water pollution reduced the beneficial uses of the wettands

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	cause a condition of pollution, contamination, or misance as defined in California Water Code	Plan states: "The discharge of waste to wasters of the state in a manner causing, or threatening to	reasons given above on each and every day between January 20, 2017 and April 17, 2017. The Basin	"Discharges from MS4s are subject to all waste discharge prohibitions in the Basin Plan" for the	233. The City of Poway has also violated NPDES Permit No. CAS0109266, Provision A.1.c.
Section 13050, is prohibited." Lake Poway is waters of the state in addition to Waters of the United	nnisance as defined in California Water Code	the state in a manner causing, or threatening to	een January 20, 2017 and April 17, 2017. The Basi	lischarge prohibitions in the Basin Plan" for the	DES Permit No. CAS0109266, Provision A.1.c:

- ZZ purposes). When pollutants cannot be precisely measured, narrative criteria are used to express a receiving waters" for the reasons given above on each and every day between Jameary 20, 2017 and parameter in a qualitative form Plan ... or in federal regulations." Namative water quality standards include protecting particular numeric or narrative water quality objects or criteria, for receiving waters as contained in the Basin designated uses such as for recreation or public water supply (Lake Powey serves both of these April 17, 2017. "The receiving water limitations included in this Order consist of all applicable "Discharges from MS4s must not cause or contribute to the violation of water quality standards in an The City of Powey has also violated NPDES Permit No. CAS0109266, Provision A 2.a.
- The term "pollution" means an alteration of the quality of the waters of the state by waste to facilities which serve those beneficial uses a degree which unreasonably affects either of the following: the waters for beneficial uses; o
- ğ "Beneficial uses" of the waters of the state that may be protected against quality degradation generation; recreation; aesthetic enjoyment; navigation; and preservation and enhancement o include, but are not limited to, domestic, municipal, agricultural and industrial supply; pow fish, wildlife, and other aquatic resources or preserves
- 235. loss of the beneficial uses of these aquatic resources. The reservoir has lost some of its water storage condition of pollution in the wetlands of Warren Camyon and in Lake Powny that has resulted in the because its discharges of pollutants from its point sources and third-party point sources caused a The City of Poway has violated Provisions A.1.a, A.1.c and A.2.a of its NPDES Permit



capacity because of Poway's pollution from its point sources – i.e. earthen stream crossings and other mobile pollutants flowing in the storm and non-storm water through its MS4. Also the beneficial uses of the wetlands immediately above Boulder Bay at the entrance into Lake Poway has been lost because of increased sedimentation that has changed the nature of the wetlands there from forested wetlands into herbaceous wetlands.

- Sediment-laden runoff results in increased turbidity and decreased oxygen in a stream and the receiving reservoir, which in turn results in loss of in-stream habitat for fish and other aquatic species.
- Sediment-laden runoff can kill fish directly, destroy spawning beds, and suffocate fish eggs and bottom dwelling organisms.
- iii. Sediment-laden runoff can increase difficulty in filtering drinking water, resulting in higher treatment costs, and can result in the loss of drinking water reservoir storage capacity and decrease the navigational capacity of waterways.
- iv. Sediment-laden runoff blocks light and reduces growth of beneficial aquatic grasses.
- While exiting the stream crossings, the rush of storm water and subsequent non-storm spring water traveling through the City of Poway's MS4 during winter and spring months of 2017 mobilized the stream crossing one piece of sediment at a time until the polluted storm water traveled toward Lake Poway and most of the dredge and fill material from the crossings was deposited either in the wetlands above Boulder Bay or in the lake bottom. The City of Poway is liable under the CWA because (1) the City "discharged pollutants from a point source, (2) the pollutants are fairly traceable from the point source to a navigable water such that the discharge is the functional equivalent of a discharge into the navigable water, and (3) the pollutant levels reaching navigable water are more than de minimis." Hawai'l Wildlife Fund v. County of Mani, 886 F.3d 737, 749 (9th Cir. 2018).
 - a. From 1972 to 2018, over 20,000 tons have entered the Boulder Bay area of Lake Poway.
 - b. In 2017, several of those tons of sediment filled in Boulder Bay to the point that half of its wooden footbridge at the inlet is now buried.

ATTACEMENT A

237. The City of Poway has also violated NPDES Permit No. CAS0109266, Provision A.1.b.

mouths of the year in non-drought years). and will be a future problem because of the reoccuring, seasonal nature of the springs (i.e. typically water discharges into its MS4. Pollisted non-storm spring water discharges into Lake Poway bave be water discharges from Rock Haven Spring or a NPDES permit authorizing the Mount Woodson sprin into Lake Powey, and the City of Powey does not have a separate NPDES permit for the non-storm Powey has not implemented Provision E.2 to the non-storm spring water discharges into its MS4 and Provision F.2, unless such discharges are authorized by a separate NPDES permit." The City of "Non-storm water discharges into MS4s are to be effectively prohibited, through implementation of

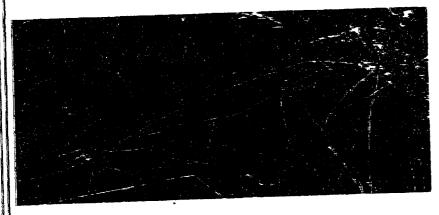
- 33 terrestrial sediment that has deposited in the reservoir from its MS4 system following the Winter project is to assess the siltation and storage capacity of Lake Poway and a review of the removal of si Poway. To supply City engineers with options for the removal of terrestrial sediment from Boulder pollution that has buried part of its wooden bridge that only a few years ago was suspended over Lab Storm Events of 2017. The City of Fowny has stated in the public record that the need for this survey Inc. to perform a bathymetric survey of Lake Poway in order to characterize the thickness of the from Boulder Bay and adjacent areas Bay and other identified areas of Lake Poway, CLE compiled a dredge report. The stated goal of the "became apparent" after the winter storms of 2017. City staff acknowledged that the course sediment On February 1, 2018, the City of Poway entered into a contract with Foth-CLE Engineering
- The report found that over 20,000 tons of course sediment has accumulated in Boulder Bay since 1972
- Ġ, The maps complied by CLE show that the course sediment has built up over the years along the route of the historical stream (Warren Creek) within Lake Powny all the way to its Cases Illinds
- ñ States designation for Lake Poway so that it would not have to abide by the Clean Water Ad The report also noted that the City of Poway is trying to remove the Waters of the United

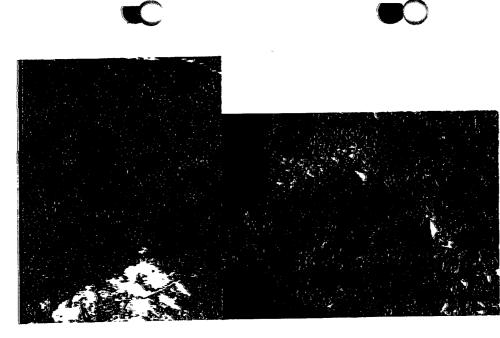


- River Watershed Prot. Comm. V. City of Santa Rosa, 142 F.3d 1136, 1138 (9th Cir. 1998); see also 40 C.F.R. § 122.41(a) ("Any permit noncompliance constitutes a violation of the Clean Water Act and is grounds for [an] enforcement action"); Nw. Envil. Advocates v. City of Portland, 56 F.3d 979, 986 (9th Cir. 1995) (noting that "[t]he plain language of [the CWA citizen suit provision] authorizes citizens to enforce all permit conditions"); Environmental Law Handbook 327 ("The primary purpose of NPDES permits is to establish enforceable effluent limitations.").
- The City of Poway has failed to fulfill Provision A.4 of its NPDES permit, which provides:

 "Each Copermittee must achieve compliance with A.1.a, A.1.c, and A.2.a through timely implementation of control measures. . . . Upon a determination by either the Copermittees or the San Diego Water Board that discharges from the MS4 are emising or contributing to a new exceedance of an applicable water quality standard not addressed by the Water Quality Improvement Plan, the Copermittees must submit the following updates to the Water Quality Improvement Plan Water quality improvement strategies (i.e. BMPs, retrofitting projects, stream and/or habitat rehabilitation projects, adjustments to jurisdictional runoff management programs, etc.) that will be implemented to reduce or eliminate any pollutants or conditions that are causing or contributing to the exceedance of water quality standards."
 - a. "[C]compliance with the Provision A.4 does not shield a Copermittee who may have violated Provision A.1.a, A.1.c or A.2.a from an enforcement action" including a citizen suit. The engagement in the iterative process does not provide a safe harbor from liability for violations of permit terms prohibiting exceedances of water quality standards. The NPDES permit is designed to allow the iterative process to continue as many times as necessary to fulfill strict water quality standards.
 - b. The City of Poway is required to go above and beyond the iterative approach as it is required to effectively prohibit non-storm water pollution in its receiving waters through effective controls that reduce the amount of lowflow spring water into its MS4 and into Lake Poway.

- 2. The City of Poway has failed to engage in best management practices in violation of its NPDES Permit by failing to maintain its cross-drainage culverts liming the unpaved road immediately above Lake Poway in 2017 to the present.
- 241. In addition to the culverts placed in waters of the state and Waters of the United States as discussed above, the City of Poway has at least eight cross-drain culverts along the unpaved road immediately above Lake Poway.
- 242. These cross-drain culverts discharge directly into Lake Poway.
- 243. These cross-drain culverts are considered a part of the City of Poway's MS4 even though they are not placed in Waters of the United States. They are considered part of the City's MS4 because they drain directly into Waters of the United States, i.e. Lake Poway thence the Pacific Ocean.
- The City of Poway has not engaged in best management practices with regard to maintaining these cross-drain culverts. The pictures below, taken in the summer of 2018, show that the culverts are half-buried in dirt, leaves, and other debris, making the culverts ineffective in properly draining the unpaved road.









245. The inhibited culverts caused an unreasonable amount of pollution to drain off its dirt roads rather than through the cross-draining culverts. This pollution entered Lake Poway between January

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	117 and April 17, 2017, on January 9 and February 27 of 2018, and will occur again on a
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- 246. Poway has violated its Jurisdictional Rumoff Management Plan and its NPDES permit. Due to the City of Powey's lack of maintenance of these cross-drain culverts, the City of
- w above Lake Poway in violation of sections 301, 401, 402, and 404 of the Clean Water In 2017, the City of Powny rebuilt the destroyed earthen crossings in its MS4 right Act

Warren Creek Crossing

- 247 occurred on January 20 and February 26-27 of 2017. bidding requirements in connection with emergency repairs due to significant winter storms that an emergency within the City of Poway and suspended environmental review and the notice and On January 24, 2017, the Poway City Council adopted Resolution No. 17-004 which declared
- 248 repairs at Lake Poway 17-004, the City listed \$4,500 as a current expanditure on storm drain/CMP (corruglated metal pipe) In its July 18, 2017 Report of Emergency Repair Expenditures Pertaining to Resolution No.
- 249 hills and mountains. At least two of these culverts within Waters of the State and United States were repaired in 2017. are used to drain water into Lake Poway from various streams and tributanies coming off the nearby There are at least ten locations in the vicinity of Lake Poway where storm drain CMP culvert
- 250 depicted on a USGS topographic map that flows into Lake Poway, which has been designated as "waters of the United States" by the state of California and by the EPA On April 17, 2017, the City of Poway started a project in Warren Creek, a blue-line stream as
- 251 non-wetland waters of the U.S. No excavation, poshing, showing or contouring of the soil occurred while placing the pipe." After placement of the CMP, staff hand placed rocks and boulders with the as follows: "Place 48" tail x 72" wide x 20' long oval corrugated metal pipe (CMP) into 0.007 acre of The City described the project in its Army Corps of Engineers, Regional General Pennit 63

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- transport to a hospital for continued patient care. The activity was the minimum necessary to to reports of traumatic injury, dehydration, acute medical emergencies such as heart attacks alleviate the immediate emergency." and strokes. Many of these emergencies require a rapid delivery of paramedic services and drinking water. Provide emergency access for the City of Poway Fire Department in respon pumping of spoiled porta pots to eliminate the potential for human waste in proximity of the lake for the maintenance of trash receptacles, trails, and other related assets, and the The City described the purpose of the activity as follows: "Provide vehicular access around
- Ģ The City described the following erosion and sediment control measures implemented: pushed, shoved, or contoured." adjacent access control road, and no upstream and downstream material in the tributary was "Shaw wattles and booms were placed downstream. Staff performed all work from the
- ç maintenance were performed onsite; no equipment was placed in the tributary." The City described the following pollution prevention measured implemented: "Spill containment materials were onsite; no equipment or vehicle fueling, lubrication, or
- 252 creek fed by perennial springs with flowing water at least three months out of the year typically.) labeled Warren Creek as "an ephemeral tributary to Lake Poway." (It is not ephemeral but a seasonal To the Army Corp of Engineers and to the San Diego Water Board, the City incorrectly
- 253 The City finished the project within Warren Creek on April 20, 2017
- 254 2017 in the City of Powey following the heavy rains of January and February 2017. when the winter rains ended in the City of Powey. In fact, in hardly rained at all in March and April "amergency" conditions (as defined by state and federal law) ended by the beginning of March 2017 Although the City of Poway described the project as occurring under "emergency" condition

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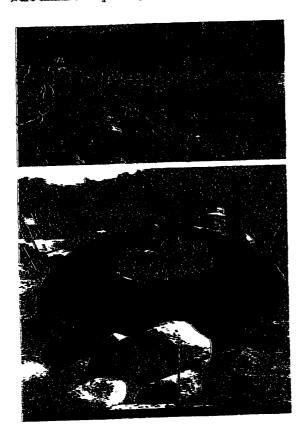
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255. Thus, the City of Powny violated the timing and situational requirements of its RGP 63 general permit because the threat of stormy weather had ended by March 1, 2017. The pictures below were taken on April 17, 2017, the day that construction of the new stream crossing began.

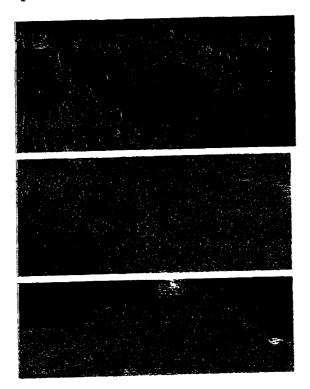


- a. The pictures above show the natural spring water that emanated from Mount Woodson before being drained into Lake Powey. It hardly rained at all in Powey in March or April 2017, including around the time that the above photographs were taken, and yet spring water still flowed through Warren Creek.
- b. The City of Poway submitted the pictures above and the pictures below to the Department of the Army and to the State Water Board in its "Final Report for Regional General Pennit 63 for





Repair and Protection activities in Emergency Situations (RGP 63)."



However, the City of Powey completed unauthorized work in addition to this rebuilt culvert crossing pictured above and violated the RGP 63 condition that the work authorized be the minimum necessary to alleviate the immediate emergency. The City of Powey failed to disclose to the federal and state authorities the device placed adjacent to the crossing on a dirt-fill platform within the location of the historical stream and the pipe attached to the culvert. The pictures below were taken in April 2018 at this same location.





The placement of the above inlet flow meter in 2017 involve dredging within Warren Creek 257. for the placement of the pipe attached to the culvert.

The RGP 63 permit states that work not described in the permit application documentation but 258. deemed necessary after a field assessment is not authorized unless acknowledged by appropriate means. Permit modifications must also be described in sufficient detail in the post-project report. The City of Poway failed to mention the device and the pipe, its location within the historical stream, the dredging and filling activities involved in their placement, and the resulting loss of wetlands for their placement, in its post-project report.

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future environmental effects

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standards as they pertain to this project and would have required the City to do much more to mitigate	individualized Section 401 certification should have addressed the local basin plan and water quality	crossing nor its device/pipe and the dirt platform on which they sit in Warren Creek. The	The City of Poway never obtained an individual water quality certification for neither its	water quality certification failed to mention the in flow meter and its placement within Warren Creek	the municipality to seek out a subsequent individual water quality certification. Also the emergency	violated the RGP 63 condition that situations that do not meet the definition of "emergency" require	by submitting its Final Report to the State Water Board, the cartification that the City received	Although the City of Poway obtained a generalized Section 401 Water Quality Certification	project to compensate for these effects as required by its Habitat Conscrution Plan.	including wellands in the immediate vicinity. The City of Poway has not engaged in a minigation	The device and the attached pipe have additional adverse effects on aquatic resources

262 the maximum extent practicable (MEP). Only a fully engineered bridge capable of withstanding a 50do not fulfill the City's NPDES requirement to control storm water and non-storm water pollution to year storm would fulfill the MEP standard. The culvert crossing, along with the inlet flow meter, are not best management practices and The City of Powey failed to engage in all necessary BMPs to control crosson and runoff from

263 areas associated with the aforementioned actions in violation of its CWA pennits.

200 current location close to Warren Creek at a location that is difficult to reach after stooms and close to vicinity that needed to be empty. It is not a best management practice to have porta pottics in their near to Warren Creek, instead of leaving them open for hikers to use after the February 26-27, 2017 the Lake in general. The City of Powey could have locked the porta potties, especially the one located The City tried to justify its emergency penuit by arguing that there were porta potties in the

265 repairs were done (the City does not have a problem closing its trails during heat waves and enforcing The City of Poway could have closed the trail at Warren Creek indefinitely until the proper

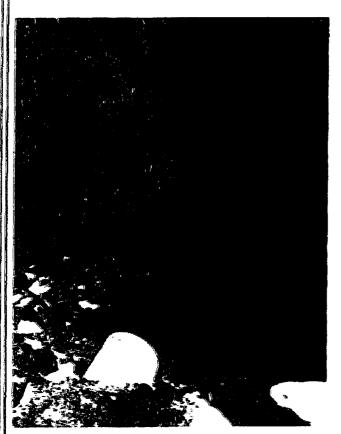
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Warren Creek crossing is not necessary but only a more convenient way to get to the top of the the closure. Also, there are other ways to get to the top of Mount Woodson (using the aforementioned mountain.) The public water supply should take precedence over recreational activities

- 266. no discharge of dredge or fill material may occur in the proxunity of a public water supply intake. Th Poway because the crossings occur in proximity of a public water supply intake City of Powey cannot use RGP 63 or any other general permit to repair its trail crossings above Lake Most importantly, the City of Poway has not adhered to the requirements of RGP 63 because
- In 2017, Lake Poway had a higher numeric turbidity level than in 2016 and, unlike previous years, a higher level than allowed by state law for drinking water (0.314 NTUs)
- ş These higher levels were caused by the failed culvert crossings within the City's MS4 as the pollution made its way to the City's public water supply intake area through diffusion
- n The City must apply for an individualized permit to undertake any access road repair projec permits that could have been potentially been used) can never be satisfied above Lake Poway because this generalized permit condition (or any of the other general
- 267 material as efflornt into the wetlands and reservoir below not impede the normal or expected high flows or cause the relocation of the water. A future heavy storm would destroy the earthen crossing in its "new" location and mobilize the dredged and fill The City of Poway did not adhere to the RGP 63 permit condition mandating that the structure
- 268 no pre-construction notification was given to the appropriate authorities and no individual 401 water crossing under Nationwide Permit 5 because of their proximity to a public water supply intake. Also, NWP 5 or any generalized pennit. quality certification was obtained for the device or the pipe, all of which would have been required by The City of Powny cannot justify placing the device and the pipe into its Warren Creek
- Army authorization. The City of Poway is likely to repair this stream crossing without future Department of the
- The City of Poway has no intention of removing the pipe or the device. These fixtures are n for temporary scientific research.

Target State Control of the Control	28	27	26	25	24	23	8	21	8	<u>.</u>	H 60	٦	5	5	À	13	N		<i>y</i> 6) <u>8</u> 6	4	9	5	4	W	2	jersi	;
	reconstructing the slope by benching the exposed slope face into competent material, and rebuilding	277. The project repaired the slope by replacing a section of clogged storin drain pipe and	instability of the slope at this location.	road. During the investigation, it was discovered that the tension crack had formed due to surficial	geotechnical evaluation specifically focused on an area where a large crack had formed parallel to the	perform a limited geotechnical evaluation of the dirt road surrounding Lake Poway. The limited	slope adjacent to the Lake Powny access road. The City utilized its on-call geotechnical consultant to	276. After the heavy rains in January and February of 2017, City staff discovered cracks in the soil	procedures normally associated with this type of project.	which was the City's justification for waiving environmental review and the formal bidding	275. This project was constructed under the Jamery 24, 2017 Proclamation of Local Emergency,	Repair project with the Piperin Corporation.	274. On July 17, 2017, the City of Poway entered into a contract for the Lake Poway Trail Slope	b. Ephemeral tributary crossing by Piperin Corporation	and non-storm water passes through the area on a seasonal basis.	because the City of Poway failed to obtain a valid state water quality certification for the entire projec	jurisdiction of the Department of the Army, it should be then treated as an illicit connection/discharge	273. Even if the Warren Creek crossing and inlet flow meter is judged to be outside of the	regulations and guidelines.	272. This Warren Creek crossing inlet flow meter device also fall under the EPA's pre-2015	Rule, which is currently applicable to California.	271. This Warren Creek crossing and inlet flow meter device fall under the 2015 Clean Water	Warren Creek crossing even under Justice Scalia's Rapanos decision.	creek down the short way into Lake Poway, Department of the Anny jurisdiction exists for this	270. As Warren Creek is a seasonal stream with adjacent wellands that continuously follow the	subject to the Clean Water Act.	b. The City has wrongly taken the position that Warren Creek is an epheneral stream that is no	

the slope with compacted fill. The final cost of the project was \$38,976.70. The picture below depicts work done by the Piperin Corporation.



- 278. The Piperin project was done within an ephemeral tributary to Warren Creek that flows into Lake Poway. This ephemeral tributary is considered Waters of the United States under the 2015 Clean Water Rule, which is applicable in California.
- 279. The location of the project is 14556 Lake Powny Road at Latitude 33.0046, Longitude -117.0100.
- 280. The Piperin project was not executed in "emergency" conditions as the work was done in the dry summer months. The City of Poway abused its emergency powers by suspending environmental review and state bidding laws to repair this earthen stream crossing above Lake Poway.
- 281. Under state law, the Piperin Corporation would be required to pay the City back for the payment made to them for its work as the work was done in violation of state bidding laws.

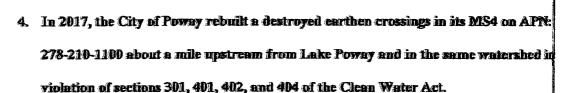
ATTACHMENT A

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- storm drain/crossing repairs within the tributaries feeding Lake Poway. The City of Poway and the Piperin Corporation failed to procure a valid permit for any of the
- Piperin Project, the City of Poway did not follow through in procuring these required authorizations. Although the City of Poway budgeted money for pennits/water quality certification for the
- above Lake Poway because of the crossings' proximity to a public water supply intake The City of Poway cannot use a generalized pennit to justify any of its culvent crossing repair
- by the ESA. *qualic area and which involved activity* in the vicinity of codangered and dheatened species protects listrict engineer prior to commencing the repair activity which involved discharges in a special epained by the Piperin Corp. because the City failed to submit pre-construction notifications to the The City cannot use a generalized Department of the Army permit for the stream crossing
- y the generalized permits, the City's Habitat Conservation Plan, and the San Diego Water Board. The City failed to engage in compensatory mitigation of additional riparian areas as required
- nuthorization and without a water quality certification in the future The City of Powey is likely to repair this crossing without Department of the Army
- he Lake Poway area totaled more than one acre uture storm water pollution as required by the City's NPDES permit because all of the work done in The City of Poway failed to implement Best Management Practices and Effective Controls for
- nder the Endangered Species Act. The CWA, like the ESA, is structured to prohibit any harmful minimize and mitigate for that harm. 33 U.S.C. §§ 1251, 1311, 1344; e.g., 33 C.F.R. §§ 323, 325. ction unless the responsible agency concludes that certain ecological standards have been met to lates, and this protection extends to critical habitat for threatened and endangued species as listed The CWA provides independent protection to waters within the jurisdiction of the United
- point of the tributaries which all have been harmed by the sediment deposits coming from the two crossings above Lake Poway in toto and the sensitive wellands that exists near the exit The combined ecological loss to wetlands has exceeded 0.1 acres when one accounts for the dredged and fill material becoming effluent with the addition of storm and non-storm water.

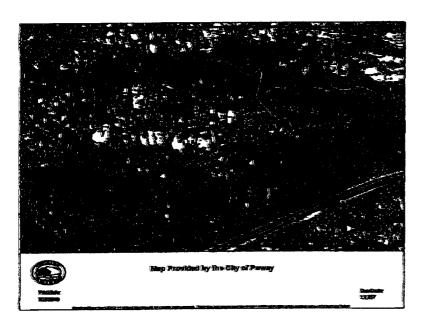
Corp permit would require ESA § 7 consultation, and that consultation for the loss of home to endangered and threated species such as California gnateatcher (Policytila californica californica), and the Least Bell's vireo (Vireo bellii pusillus). Any valid Anny wellands was not accumplished These wettands contain Pacific shining willows and other obligate wetland species that are

- Ġ, The City of Poway failed to conserve similar habitat as compensatory mitigation for its CFR § 402.16 City causes effects to listed species or critical habitat that were not previously considered. St Alternatively, the regulations require § 7 consultation to be re-initiated when the action of the crossings and the destructive impact that the crossings have had and will have in the future.
- 290 States has led to effluent being deposited in waters of the state and the United States The City of Poway's unpermitted/unauthorized work in waters of the state and the United
- 291 Poway other effective controls such as the use of bioengineering be used to prevent future pollution into Lake it would fall under the City's NPDES permit and its requirements that best minagement practices and Even if the Piperim crossing is deemed outside the jurisdiction of the Department of the Army
- 28 all remaining unavoidable impacts. These impacts have harmed sensitive habitat for endangered and process, it would have showed that steps were taken to avoid impacts to wetlands, streams and other threatened species aquatic resources; that potential impacts were minimized; and that compensation will be provided for If the City had obtained proper permits and had undergone the normal environmental review
- 13 went beyond the classification of a "maintenance project." that will minimize the generation of pollutarits at the location of the Piperin Project because the proje To fulfill its NPDES permit, the City of Poway should have installed source control BMPs



- 294. The City of Poway owns APN: 278-210-1100. The parcel is zoned open-space resource management. According to the City's Habitat Conservation Plan, the parcel contains a listed species, Encinitas baccharis (*Baccharis Vanessae*). The species extends to Mount Woodson and Poway where it is associated with dense southern mixed chaparral. 61 Fed. Reg. 195 (October 7, 1996). The parcel also contains a portion of Warren Creek and Rock Haven Spring.
- Trail. A portion of the trail meets Highway 67 in an extremely steep portion of Caltrans' right of way.

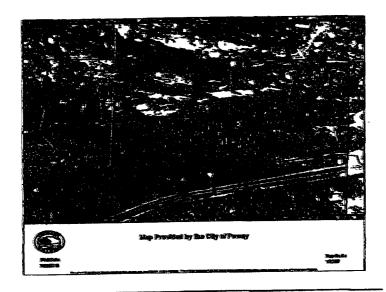
 The Warren Canyon Trail meanders through the lower reaches of Mount Woodson and leads to Lake Poway.
- 296. The Warren Canyon Trail crosses over Warren Creek on APN: 278-210-1100. The approximate location of the point of crossing is depicted by a red arrow on the photograph below:



297. After the heavy rains of 2017, the crossing was destroyed and the effluent was deposited in the wetlands of Warren Canyon and into Luke Powny below.

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	27 property APN: 278-210-1800, and into Lake Poway below.		306.	24 the City's MS4 and onto Complainant's property below.	305.	22 210-1100.	30	20 this crossing.		303						302.	United States.		301	7 zoned rural residential.		300.		299.	2 James to the beginning of April during most years	1 298. As a seasonal stream, water
		reduce storm and non-storm water pollution coming from APN: 278-210-1100, onto Complainant's	The City of Poway failed to install effective controls and other best management practices to	ant's property below.	Noar-storm water from Rock Haven picks up pollution from Highway 67 and then flows into		The City's actions created mobile pollutants to be placed within Warren Creek on APN: 278-		because the City failed to file a pro-construction notification or obtain a water quality certification for	In the Spring of 2017, the City repaired this crossing without a proper CWA § 404 permit	Some of this pollution traveled all the way into Lake Poway on those dates (approximately).	permit, Provisions A.1.a, A.1.b, A.1.c, and A.2.a for many of the same reasons as mentioned above.	every day between Jamuary 20, 2017 and April 1, 2017. This pollution violated the City's NPDES	pollution barraed the wetlands located on the City's property and Complainant's property on each and	crossing resulted in pollution traveling onto Complainant's property at APN: 278-210-1800. This	During the heavy storms of 2017 and for three months thereafter, effluent from the City's	e e e e e e e e e e e e e e e e e e e	and fill material and other mobile pollutants being intentionally placed in waters of the state and	The City's trail crossing on APN: 278-210-1100 over Warren Creek has resulted in dredged		1800, 278-210-0300, 278-210-0400, 278-210-2900, and 278-210-3000. All of this surrounding land is	Complainant own the five parcels surrounding the City's open-space parcel: APNs 278-210-	from this spring flows under Highway 67 and into the blue-line stream draining Rock Haven.	Rock Haven Spring is located on the parcel and on the adjacent Caltrans right of way. Water	ming most years.	As a seasonal stream, water flows in Wanren Creek on APN: 278-210-1100 continuously from

- 5. The City of Poway has constructed and maintained an unauthorized hiking trail on Complainant's parcels, APN: 278-210-0300, 278-210-0400, 278-210-2900, and 278-210-3000, in violation of state trespassing laws and in violation of the ESA and the CWA.
- 307. Complainant's four other parcels (described in two separate deeds) are also located adjacent to the City of Poway's parcel APN: 278-210-1100.
- 308. The property line of Complainant's parcels reaches to Powey's northern and northeastern city limit. These four parcels, like the City's parcel, are in Warren Canyon and contain a portion of Warren Creek, the blue-line stream draining Rock Haven.
- 309. The photograph below depicts four of Complainant's parcels (zoned rural residential). The well-maintained hiking trails as shown cross over a portion of Warren Creek. The historical stream on this parcel is considered jurisdictional waters of the United States under the 2015 Clean Water Rule.
- 310. The City of Poway regularly clears the stream and upland areas of wooded vegetation in violation of state trespassing laws and without a valid § 404 permit, which is needed to clear the remnants of the stream bed.







- 311. In the picture above, the X marks in lime green are the approximate locations of the endangered species that the City of Poway has cut or destroyed in the process of constructing and maintaining its trails on Complainant's parcels.
- 312. The City of Poway's discharges of pollutants by maintaining this point source stream crossing has resulted in violations of the City's NPDES permit.
- 313. The City of Poway failed to obtain a CWA § 401 water certification for this crossing.
- 314. Under Cal. Penal Code § 601 and 602, it is unlawful to cut down, destroy, or injure any kind of wood growing upon the lands of another.
- 315. Two federally listed threatened and endangered species have been harmed by the City of Poway: Arctostophylos glandulosa ssp. Crassifolia (Del Mar or Costa Baja manzanita, pictured below) and Baccharis vanessae (a California endangered plant), which has been documented to grow in Poway and on Moont Woodson by the federal government at 61 Fed. Reg. 195 (October 7, 1996).



Because the City has violated a state criminal trespass law and other state laws, the City is liable under Section 9(a)(2) of Endangered Species Act, 16 U.S.C. § 1538(a)(2)(B), which makes it unlawful to remove, cut, dig up, or damage or destroy any endangered plant in knowing violation of



any state law or regulation or in the course of a violation of a state criminal trespass law. The "violation of any law... of any State" language of Section 9(a)(2)(B) federalizes the City's violation of state law.

- The City is also in violation of 16 U.S.C. § 1538(a)(1) because Complainant's parcels contain critical habitat for the California gnateatcher, the least bell's vireo, and the golden eagle (currently delisted but protected by another statute), and the City's activities on Complainant's parcels have harmed these species and their habitat.
- The City of Poway has several volunteers under the authority and direction of Bob Hahn,

 Poway's Parks Maintenance Supervisor, who help maintain the City's trails, including those on

 Complainant's parcels. Complainant has spoken with Mr. Hahn, and he has confirmed that the City

 maintains the trails on Complainant's property on a regular basis. Complainant observed the City's

 maintenance activities on Complainant's property during the first week of May of 2018.
- 319. Although the issuance of an Incidental Take Permit authorizes "take" by any entity under "direct control," Poway's Habitat Conservation Plan is not applicable to Complainant's parcels of land unless Complainant agrees to be a participant and abide by its terms.
- 320. According to the City's HCP, if a percel contiguous to the existing Mitigation Area is found to support high quality habitat or covered species, the property owner may voluntarily request that the property be added to the Mitigation Area. According to Poway's City Planner Joseph Lim, the California Department of Fish and Wildlife had previously urged the City of Poway to purchase APNs: 278-210-0300, 278-210-0400, 278-210-2900, and 278-210-3000 because of the high habitat values and because of the hiking trails through the properties, but the City of Poway decided to pursue other projects instead of obtaining a legal right to use the trails.
- 321. The fire department uses the trails on Complainant's property as an auxiliary route in wildfire situations, and City maintenance crews and volunteers use Complainant's trails instead of the City's official access point further south for safety reasons. Several people park their cars on Complainant's property to access the Warren Canyon trail rather than parking on the opposite side of Highway 67 and running through the plethora of speeding cars to get to the side where the trailhead is located.



- 322. Even googlemaps has the trailhead for the Warren Canyon trail on Complainant's parcel,

 APN: 278-210-3000, because it is a better maintained and safer trail with easier access than the

 alternative.
- 323. For the most part, the City stopped maintaining its official trailhead and has used Complainant's trailhead and properties instead.
- Caltrans has essentially built a crossing over Warren Creek on Complainant's property by culverting some of the water from the stream and diverting it further south into the Caltrans right of way.
- 325. The City uses Complainant's property because the alternative route is steep and dangerous, especially during the winter and spring months.
 - The City of Poway is liable for not implementing Provisions E.2.b, E.2.c, and E.2.d of its 2013 MIS4 Permit in the subwatershed area above and including Lake Poway.
- The City of Poway has not maintained an accurate map of its entire MS4 and the corresponding drainage areas within its jurisdiction including the location of Rock Haven Spring and Kelly Spring on Complainant's property.
- 327. The City of Poway has not mapped the major outfall immediately above Lake Poway.
- The City of Powey is required to track, identify, and climinate illicit discharges and connections to its MS4 from third parties in Warren Canyon because non-storm water flows through Warren Canyon. It has not done so.
- Provision E.2.c requires each Copermittee to conduct field screening and monitoring of MS4 outfalls and other portions of its MS4 within its jurisdiction to detect non-storm water and illicit discharges and connections to the MS4. The field screening requirement is required to be implemented through the dry weather MS4 outfall discharge monitoring required under Provisions D.2.a.(2) and D.2.b(1). The City of Powey has failed to monitor Lake Powey for non-storm water discharges including the polluted spring water from Mount Woodson and Rock Haven that flows into its MS4 and into its reservoir.

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ischarges and connections to the San Diego Water Board	The City of Pos
ms to the San Dieg	The City of Poway has failed to properly report its non-storm water discharges and other illici
p Water Board.	perly report its no
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- contaminated non-storm water discharges to its MIS4 was a was Rock Haven Spring and Kelly Spring. each Copermittee pursuant to Provision E.1. The City of Poway has not accomplished this as to the and illicit discharges or connections must be eliminated by enforcing the legal authority established by illicit discharges or connections to its MS4 based on field screening and monitoring data, NALs, illicit discharge investigation records, and the known and suspected sources. Sources of non-storm water Each Copermittee is responsible for prioritizing its efforts to eliminate non-storm water and
- 332 separate NPDES permit authorizing non-storm water polluted discharges property and into Lake Poway from at least January 20, 2017 to the present day without a The City of Poway has been discharging non-storm water pollution onto Plaintiff's
- 3 Provision E.2.a.(1) through E.2.a.(4), must be reduced or eliminated, unless a non-storm water that any non-storm water discharges to the Copermittees MS4, even those identified pursuant to discharge is identified as a discharge authorized by a separate NFDES permit." 2013 MS4 Permit, "Provision E.2.a.(7) has been included in the requirements for non-storm water discharges to clarify Haven Spring and Kelly Spring with effective controls to faitfill 2013 MS4 Permit, Provision E.2.a.(7) Attachment F-96 The City of Poway must reduce or climinate the non-storm discharges coming from Rock

VIIII. Summary of the Remedies Sought for all of the City of Poway's Violations

 Complainant will seek a court order declaring the City of Poway to have violated contributing to exceedances of water quality standards in waters of the state and and to be in violation of its MS4 permit and Sections 301(a) and 402(p) of the United States. The City of Poway is liable for at least 261 violations for its point Clean Water Act, 33 U.S.C. § 1311(a) and 1342(p), for discharges causing and



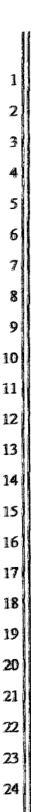
source pollution coming from its unpaved road culvert crossings between January 20, 2017 to April 17, 2017.

- 8. Complainant will seek a court order declaring the City of Poway to have violated and to be in violation of Section 301(a) of the CWA, 33 U.S.C. § 1311(a), for engaging in dredge and fill activities without a valid permit in four different locations upstream of Lake Poway.
- 9. A court order declaring the City of Poway to have violated and to be in violation of Section 301(a) of the Clean Water Act, 33 U.S.C. § 1311(a), for engaging in dredge and fill activities without a 401 Certification pursuant to the Act in at least four locations above Lake Poway.
- 10. A court order permanently enjoining the City of Poway from discharging or causing the discharge of dredged or fill materials or other pollutants into any waters of the United States except in compliance with a § 404 permit and § 401 certification and its NPDES permit.
- 11. To effectively prohibit non-storm water pollution, the City must install a bridge instead of the culvert crossing currently installed in Warren Creek. Complainant will seek this injunctive relief.
- 12. To effectively prohibit non-storm water pollution, the City must actively enforce the law as to other landowners in Warren Canyon who have unpermitted culvert crossings and other unpermitted dirt fill within Warren Creek. Complainant will seek this injunctive relief.
- 13. As a best management practice, Complainant will seek a court order for the removal of the porta potties by Warren Creek in proximity to Lake Poway.





- 14. A court order declaring the City of Poway to have violated and to be in violation of its MS4 permit and Sections 301(a) and 402(p) of the CWA for discharging non-storm water to its MS4 without a separate NPDES permit from January 20, 2017 to April 17, 2017.
- 15. A count order adding Lake Poway to the section 303(d) of the CWA list of impaired water bodies.
- 16. A court order declaring that the City of Poway does not have a separate NPDES permit for the discharge of non-storm spring water from January 20, 2017 to the present day. Every day that passes without this separate NPDES permit in place is considered a separate violation of the Clean Water Act and should be penalized up to \$53,000 per day.
- 17. A court order directing the City of Poway to undertake measures, at the City's own expense and at the direction of the Regional Board and Army Corps, to effect complete restoration of waters of the United States within Warren Creek and its tributaries, to restore the capacity of Lake Poway through sediment removal and to conduct on-site and off-site mitigation for unauthorized and/or unavoidable impacts to waters of the United States, as appropriate.
- 18. Complainant will seek an order for the City to undertake as many stream, channel, and/or habitat rehabilitation projects within the Watershed Management Area that can feasibly be implemented to protect and/or improve conditions in the City's MS4 and receiving waters including waters of the state from MS4 pollutants and/or stressors within the Lake Poway/Warren Canyon sub-watershed area including the projects outlined in Exhibit A.



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19. A court order awarding Complainant's reasonable costs of suit, including attorney, witness, expert and consultant fees, as permitted by Section 505(d) of the Clean Water Act, 33 U.S.C. § 1365(d); Section 11(g)(4) of the Endangered Species Act, 16 U.S.C. § 1540(g)(4); and Section 2412(d) of the Equal Access to Justice Act, 28 U.S.C. § 2412(d).

IX. Notice Requirements and Conclusion

He cam be

i, or at

that he can

work with the City of Poway and the state and federal agencies in crafting a legal solution to the matters discussed in this letter.

Sincerely,

Demonstrate was the INTE

Complainant

Cc: Attorney General Jeff Sessions U.S. Department of Justice 950 Pennsylvania Avenue, N.W.

Washington, DC 20530-0001